



LIGHTING EQUIPMENT *by*

MAJOR

СТИМПИЮӨТ ӨНІТГІЛІ





MAJOR

General Catalog

THIS BOOK, we feel, marks an era in lighting—it is eloquent of the latest development in equipment and brings to those interested much technical information to aid them in new achievements in lighting effects.

Frankly, it is of course, a book to create the desire to buy—yet its strongest appeal is in the idea of rendering service to the many customers and prospects for Major Lighting Equipment.

Number 17

Reflectors for all uses, stage lighting products, both permanent and portable, window lighting, floodlighting, cove lighting, are among the subjects treated.





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ROSCOE E. MAJOR



PHIL. J. RABON

Engineering and Sales Service

LIIGHT is a very fragile, a very beautiful, and very intangible thing. The control of light has been one of the deepest studies of mankind. Modern lighting, in various buildings and theaters, paints with glorious effects the whole range of human emotions, and is accomplished only by engineering. Efficient engineering requires vision, knowledge, and experience, which can not be gained except through years of effort and thought. It is this type of engineering service provided by the Major Equipment Company, that expresses itself in the products shown in this book. Its scope, however, reaches out beyond these units of lighting equipment and into the very vitals of lighting installation. It builds with sure and steady hand the correlation of all factors, and guides with unerring skill the means of obtaining the result desired. Co-operation with engineers and architects construct-

ing America's splendid buildings lends this specialized help, not counted in the cost, but forming a very great part of the finished job. Major engineering is at the service of the Company's many customers.

Of secondary importance, but still of great value, is the sales and distributing organization that brings to you Major products. Here we have the physical functioning that makes sure of correct estimates, of prompt and efficient schedules and layouts, of delivery where and when the products are required. The nation-wide organization furnishes a capable sales-engineer in every district office. These are at your command.

In putting particular emphasis on Major engineering and sales service, we feel that these must be considered in their true importance in the purchase of these goods worthy of the Major trade-mark.

MAJOR

At the headquarters of the Major Equipment Company in Chicago there is a completely and beautifully equipped small theater where Major engineers test new products and where architects, engineers and others interested may see Major equipment under working conditions. The picture on this page gives but little appreciation of this cameo theater which has delighted the hundreds who visit it yearly. It contributes largely to the practical progress of Major advanced ideas in lighting and the story of Major's unusual service would be incomplete without it.



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Chicago, Illinois

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Borderlights—Chromium Reflectors

Type B-512

500 Watt or 300 Watt Lamps

PS40

PS35

12" Centers—Min.



While the B512 is a large borderlight, yet the overall width is only 12 $\frac{1}{2}$ ". It has the Major Chromium Plated Reflectors that caused such a furor when announced and have since proved their worth. 20-gauge galvanized iron, finished dead black, is used. All Major Borderlights are furnished (unless otherwise specified) with a single worklight in center of borderlight on a separate circuit.

FOR large theaters and where volume of light is appreciated. Not so many years ago this size Borderlight would be considered huge, but the "profits-at-the-box-office" knowledge has proved that investment in light pays.

Major development brings this new unit to a high efficiency, getting a volume of light on the stage that makes every performance sparkle. It's a big borderlight for a big job.

LIST PRICES

Cat. No. B512—Borderlight. Furnished complete with new moulded mogul sockets, properly wired for colors and circuits, with terminal connection block (as specified) including chain hangings, and one Pyrex glass roundel (any color) for each reflector. The new Major Slip Ring is a part of the reflector. Shipping weight, 22 lbs. per foot.

List Price, Per Foot \$20.00

Above price does not include lamps, gelatine, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

Extra heat resisting convex shaped diffusing glass roundels, clear, blue, amber, red, green, canary.

List Price, Each \$6.00

Gelatine color frame.

List Price, Each \$3.00

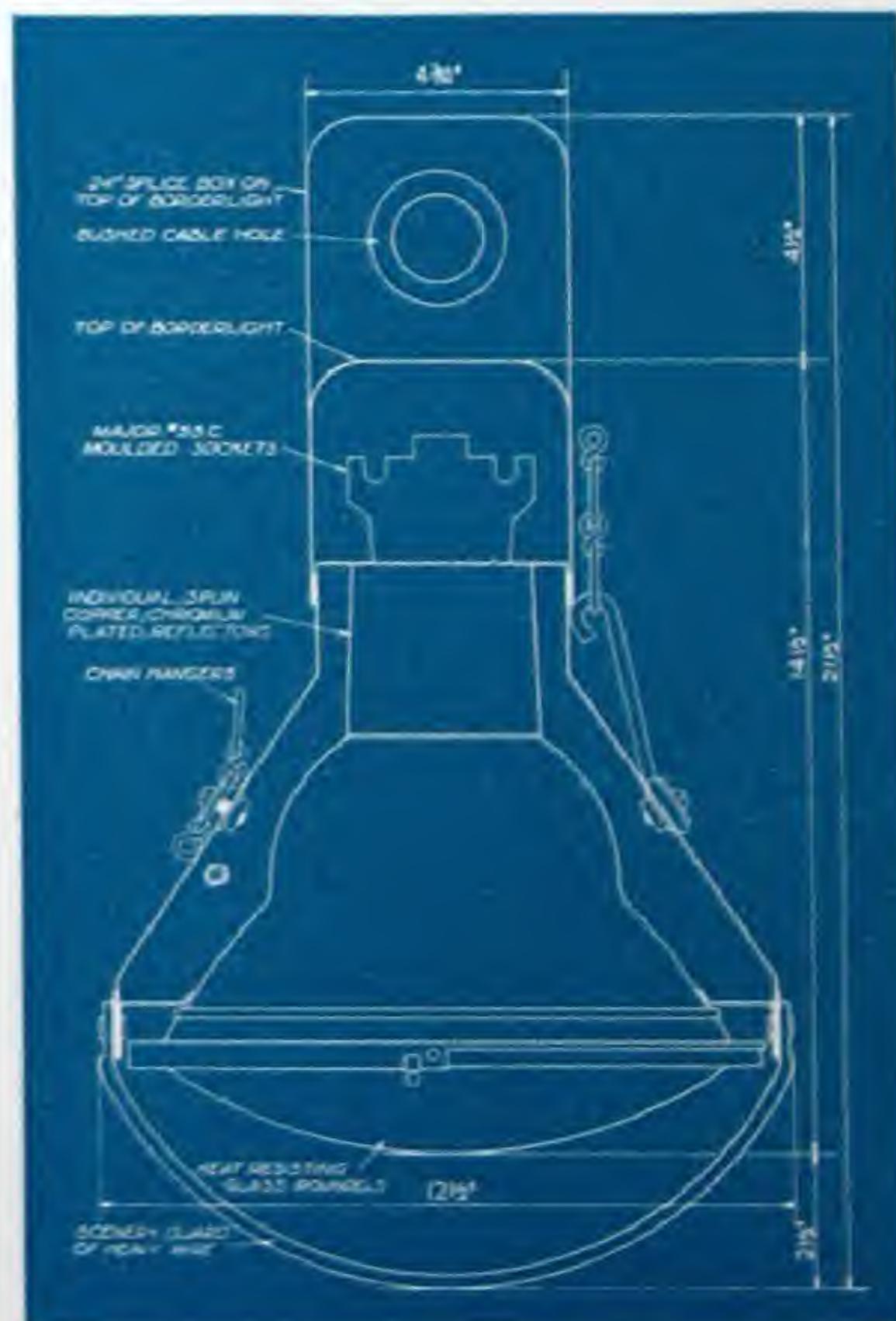
Imported Gelatine in 20 x 22" sheets, in colors. List Price, Per Sheet 30c

For furnishing and mounting special receptacle (for spotlight or upper worklight) and complete wiring of same on separate circuit, add

List Price, Each \$8.00

Special No. W-150 upper worklight unit for mounting on pipe batten with pipe clamp, including cable and plug for plugging in special receptacle in borderlight.

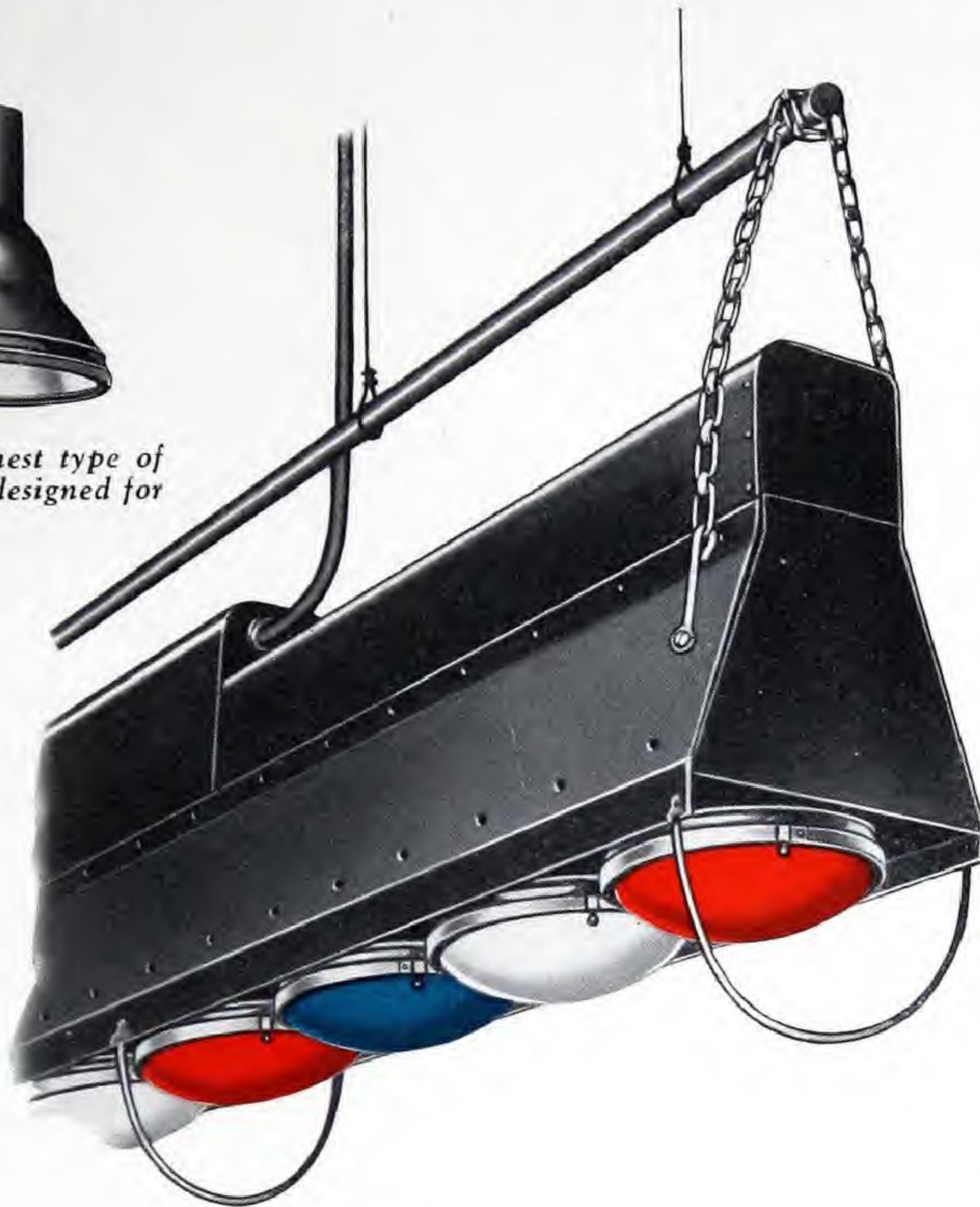
List Price, Each \$12.00



Borderlight Features and Uses



This is the finest type of reflector ever designed for borderlights.



A NEW and very practical feature of Major Borderlights is a terminal connection block in the wiring box, having screw connection for all circuits called for by the specification. This is a great convenience in installing Major Borderlights. It provides not only a great saving in time, but also a means for neater work by eliminating soldered and taped joints, affords a simplified arrangement for testing and economical changes if required.

Note the heavy reinforced construction and entire absence of sharp corners and any projection that might foul scenery. Gelatine color frame may be used instead of glass roundels.

Ample ventilation without light leakage.

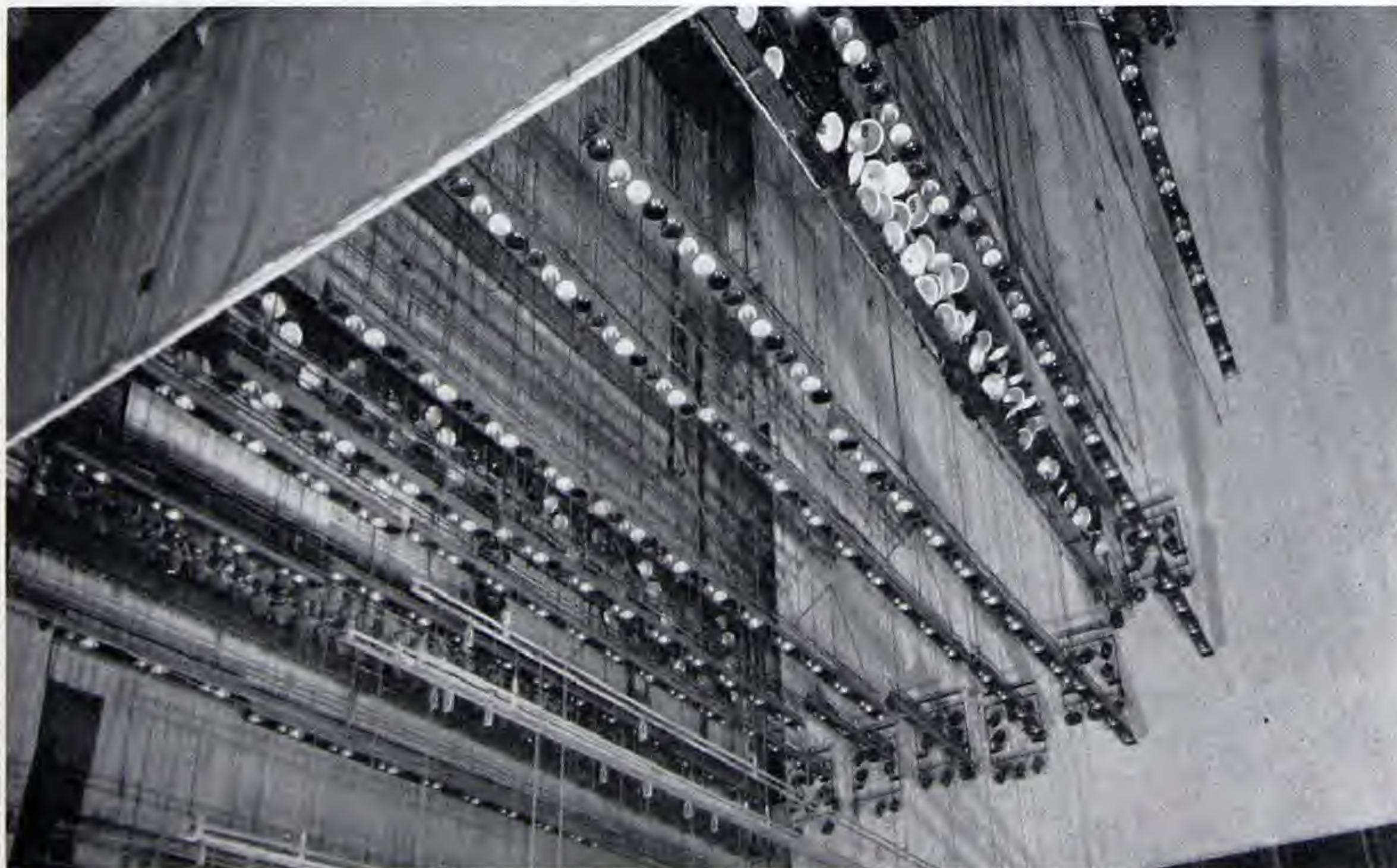
New Patented Major Slip Retaining Ring. Made so that either roundels or a gelatine frame may be used, and so that it can be easily and quickly removed with one hand when relamping.

Chain hangers allow for tilting adjustment for borderlight position.

Heavy guard for protection of glass. Drops cannot "foul" here.

Natural colored heat resisting molded glass roundels, made by special process, safe glass to use, as heat will not break it.

Chromium plated reflectors deliver the most light possible over the longest time at the point required.



Major Borderlight Equipment in Chicago Civic Opera House—Nine Sixty-six Foot Long Type B-512 Borderlights

IT IS an engineering problem, that requires years of specialized experience to decide the type and size of borderlights for a certain stage. The most successful theaters, though, seem to use the largest volume of light the capacity for equipment will permit. At your request we will co-operate with you, without obligation, to give you the benefit of our study and experience.

Borderlights—Chromium Reflectors

Type B-208

200 Watt—PS30 Lamps

8" Centers—Min.



PROBABLY more B-208 types of Major Borderlights have been installed than any other, for it has long been a popular and practical size for many theaters.

LIST PRICES

Cat. No. B208—Borderlight. Furnished complete, properly wired with new moulded medium base sockets for colors and circuits (per specification), with terminal connection block, including reflectors, chain hangings, and one Pyrex glass roundel (any color) for each reflector. The new Major Slip Ring is part of each reflector. Shipping weight, 18 lbs. per foot.

List Price, Per Foot \$18.00

Above price does not include lamps, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

Extra heat resisting Pyrex convex shaped diffusing glass roundels, clear. Blue, amber, red, green and canary.

List Price, Each \$3.00

Gelatine color frame.

List Price, Each \$2.00

Imported Gelatine in 20 x 22" sheets, in colors.

List Price, Per Sheet 30c

For furnishing and mounting special receptacle (for spotlight or upper worklight) and complete wiring of same on separate circuit, add

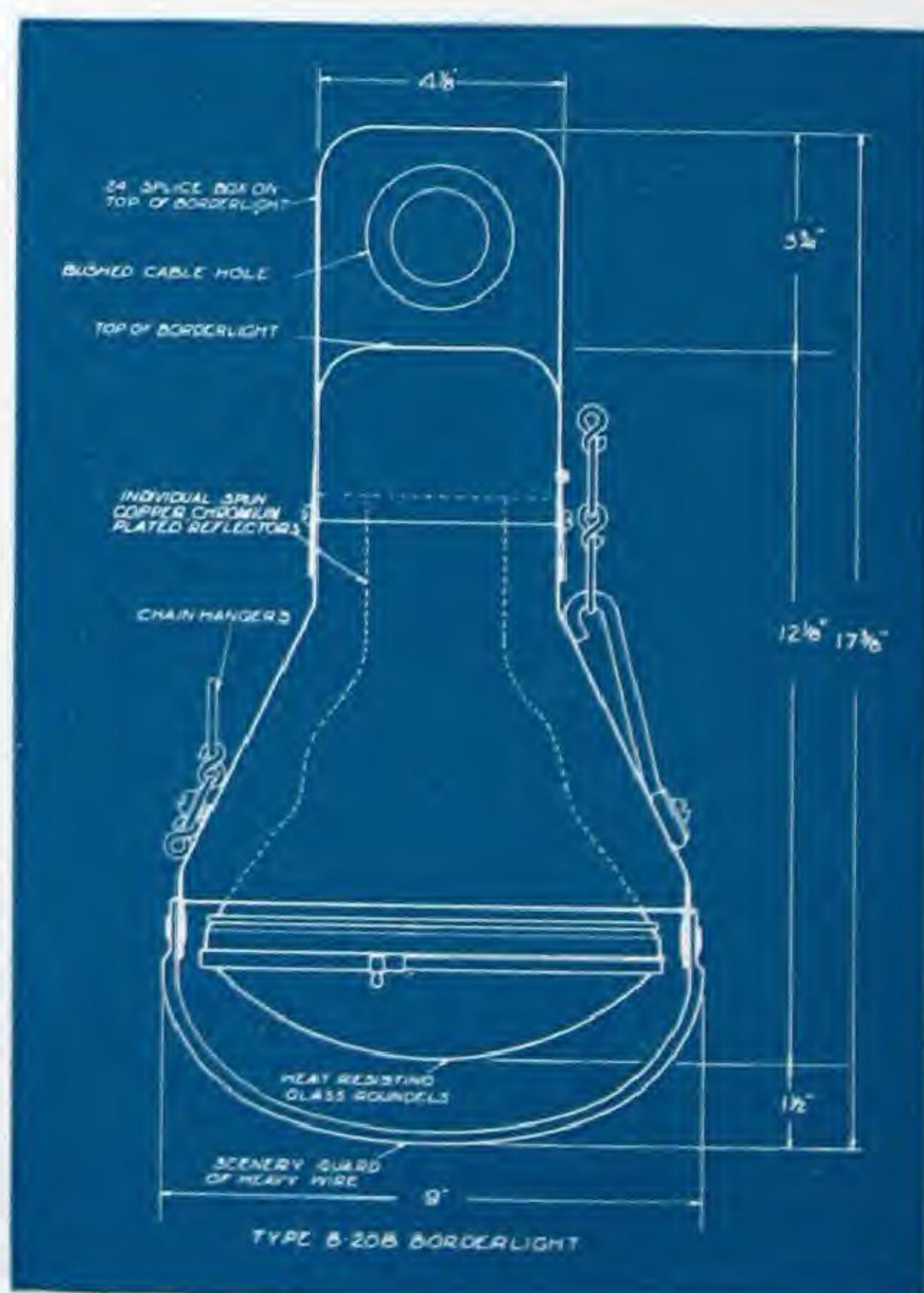
List Price, Each \$8.00

Special No. W-150 upper worklight unit for mounting on pipe batten, with pipe clamp, including cable and plug for plugging in special receptacle.

List Price, Each \$12.00

Now with the addition of the New Major Patented Slip Retaining Ring for the roundels and the new terminal block for each specified circuit, it has gained in value and effectiveness.

Dimensions and other data are given on this small blueprint. We will be glad to furnish a complete estimate for any borderlight job without obligation. Call in the Major district office man.



Borderlights—Chromium Reflectors

Type B-156

150 Watt PS25 Lamps
6" Centers Minimum



THIS is a medium-sized borderlight, but it is a very effective Major Unit Reflector Type. It has all the features and efficiency

of the B512 and B208, only being designed for smaller lamps. Note that this type shares the unique advantage of hanging only 5 degrees from the perpendicular, thus putting more light on the stage than any other make. The reflectors, of course, are chromium plated.

LIST PRICES

Cat. No. B156—Borderlight. Furnished complete with new moulded medium base sockets, properly wired with new terminal block for colors and circuits (per specification) including chain hangings and one Pyrex glass roundel (any color) for each reflector opening. The new Major Slip Ring is part of each reflector. Shipping weight, 15 lbs. per foot. **List Price Per Foot, \$16.00**

Above price does not include lamps, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

Extra heat resisting, convex shaped, diffusing glass roundels, clear, blue, amber, red, green, canary. **List Price, Each \$2.00**

Gelatine color frames..... **List Price, Each \$1.00**

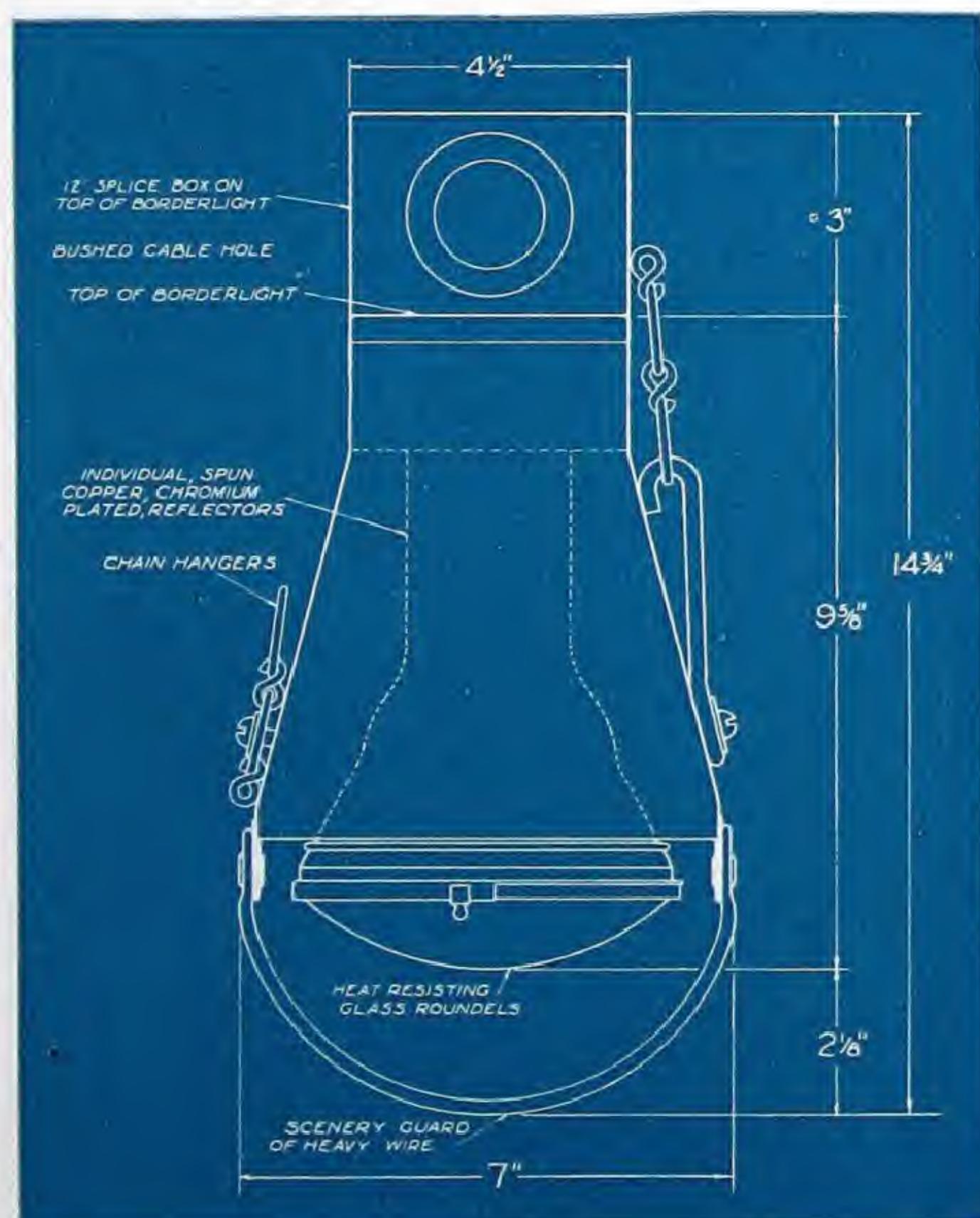
Imported gelatine in 20" x 21" sheets in colors.

List Price, Per Sheet 30c

For furnishing and mounting special receptacle (for spotlight or upper worklight) and complete wiring of same on separate circuit, add..... **List Price, Each \$8.00**

Special No. W-150 upper worklight unit for mounting on pipe batten, with pipe clamp, including cable and plug for plugging in special receptacle in borderlight.

List Price, Each \$12.00



Borderlights—Chromium Reflectors

Type B-208

200 Watt—PS30 Lamps

8" Centers—Min.



PROBABLY more B-208 types of Major Borderlights have been installed than any other, for it has long been a popular and practical size for many theaters.

LIST PRICES

Cat. No. B208—Borderlight. Furnished complete, properly wired with new moulded medium base sockets for colors and circuits (per specification), with terminal connection block, including reflectors, chain hangings, and one Pyrex glass roundel (any color) for each reflector. The new Major Slip Ring is part of each reflector. Shipping weight, 18 lbs. per foot.

List Price, Per Foot \$18.00

Above price does not include lamps, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

Extra heat resisting Pyrex convex shaped diffusing glass roundels, clear. Blue, amber, red, green and canary. List Price, Each \$3.00

Gelatine color frame.

List Price, Each \$2.00

Imported Gelatine in 20 x 22" sheets, in colors.

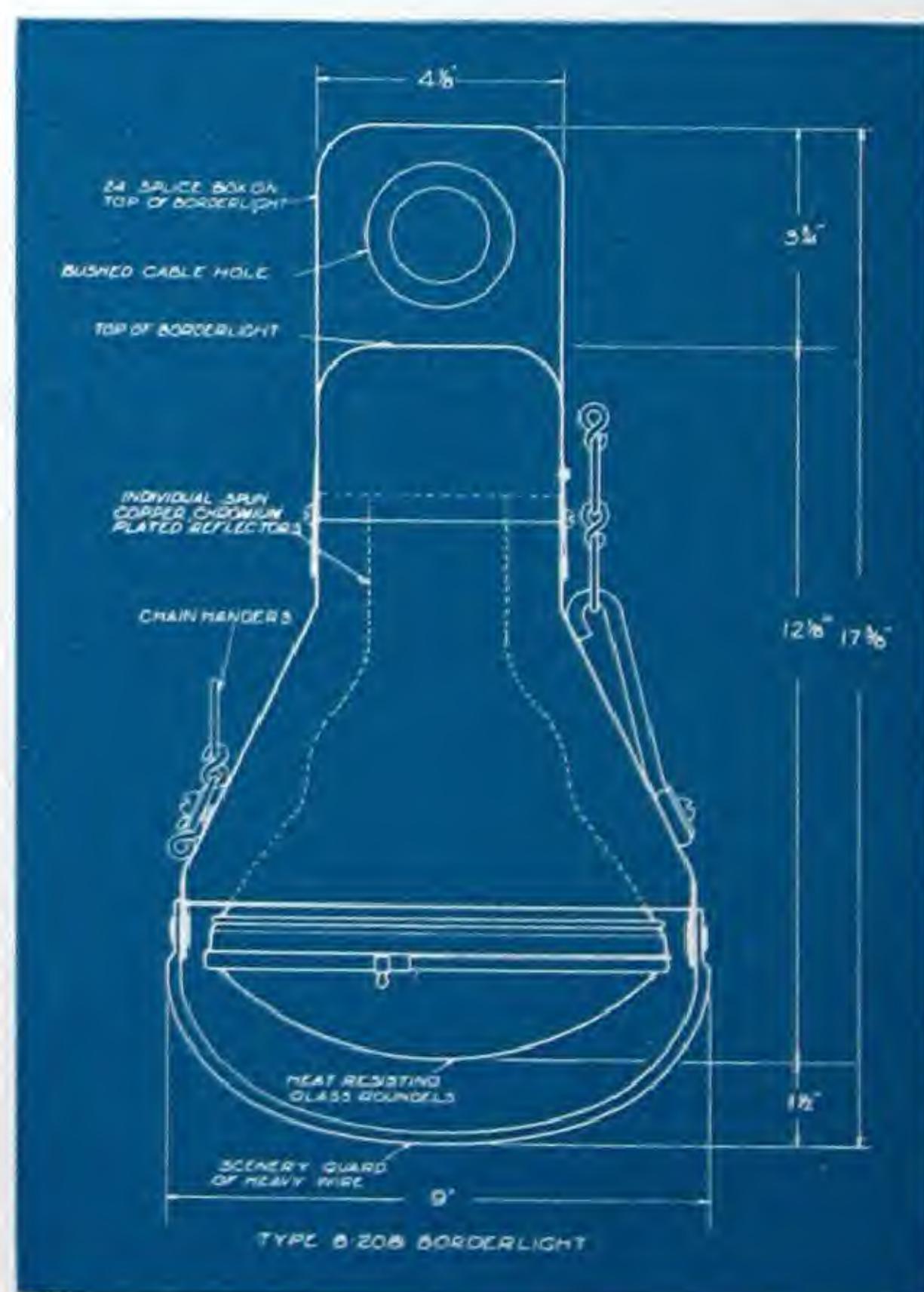
List Price, Per Sheet 30c

For furnishing and mounting special receptacle (for spotlight or upper worklight) and complete wiring of same on separate circuit, add

List Price, Each \$8.00

Special No. W-150 upper worklight unit for mounting on pipe batten, with pipe clamp, including cable and plug for plugging in special receptacle.

List Price, Each \$12.00



Borderlights—Chromium Reflectors

Type B-156

150 Watt PS25 Lamps
6" Centers Minimum



THIS is a medium-sized borderlight, but it is a very effective Major Unit Reflector Type. It has all the features and efficiency

of the B512 and B208, only being designed for smaller lamps. Note that this type shares the unique advantage of hanging only 5 degrees from the perpendicular, thus putting more light on the stage than any other make. The reflectors, of course, are chromium plated.

LIST PRICES

Cat. No. B156—Borderlight. Furnished complete with new moulded medium base sockets, properly wired with new terminal block for colors and circuits (per specification) including chain hangings and one Pyrex glass roundel (any color) for each reflector opening. The new Major Slip Ring is part of each reflector. Shipping weight, 15 lbs. per foot. **List Price Per Foot, \$16.00**

Above price does not include lamps, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

Extra heat resisting, convex shaped, diffusing glass roundels, clear, blue, amber, red, green, canary. **List Price, Each \$2.00**

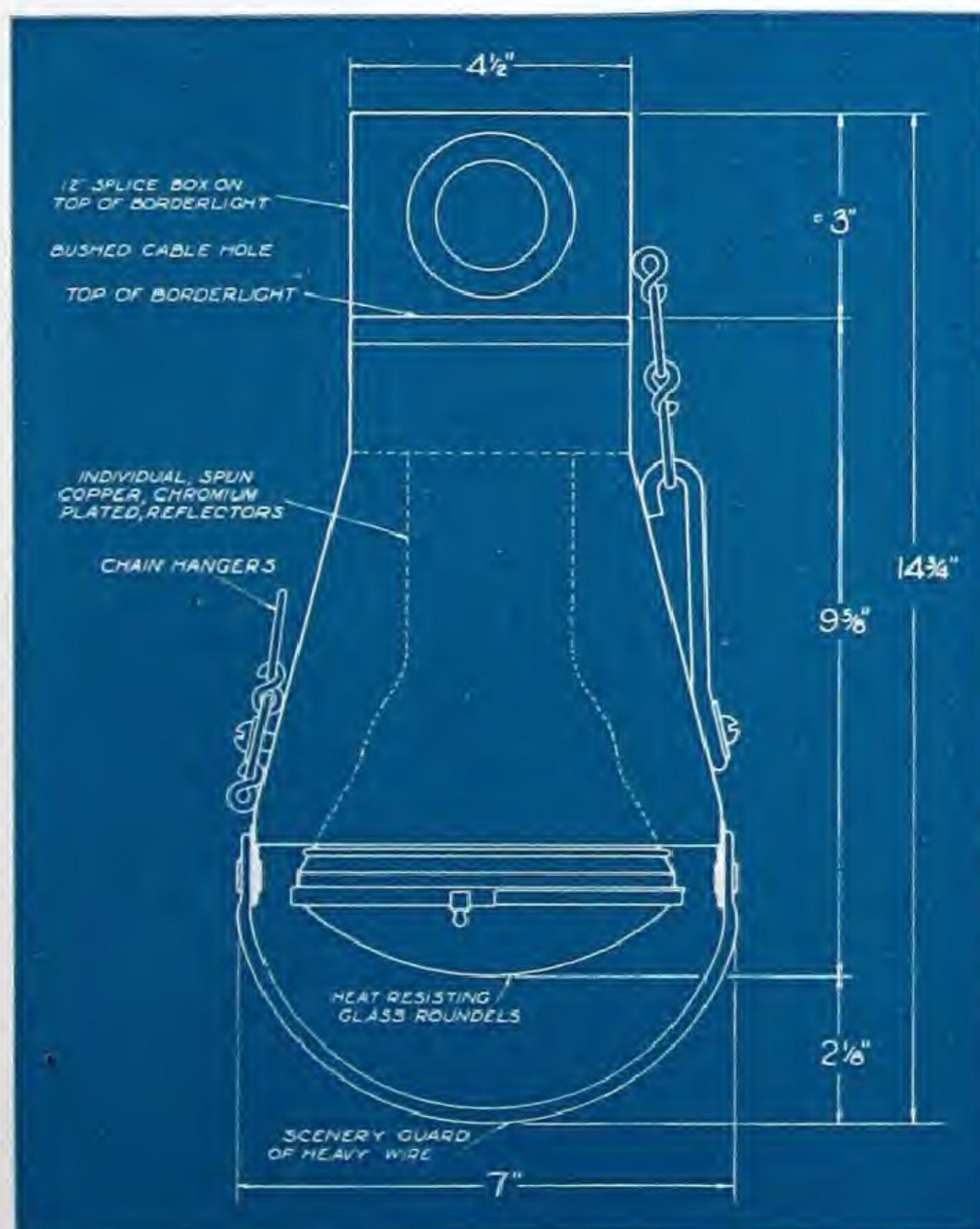
Gelatine color frames..... **List Price, Each \$1.00**

Imported gelatine in 20" x 21" sheets in colors. **List Price, Per Sheet 30c**

For furnishing and mounting special receptacle (for spotlight or upper worklight) and complete wiring of same on separate circuit, add..... **List Price, Each \$8.00**

Special No. W-150 upper worklight unit for mounting on pipe batten, with pipe clamp, including cable and plug for plugging in special receptacle in borderlight.

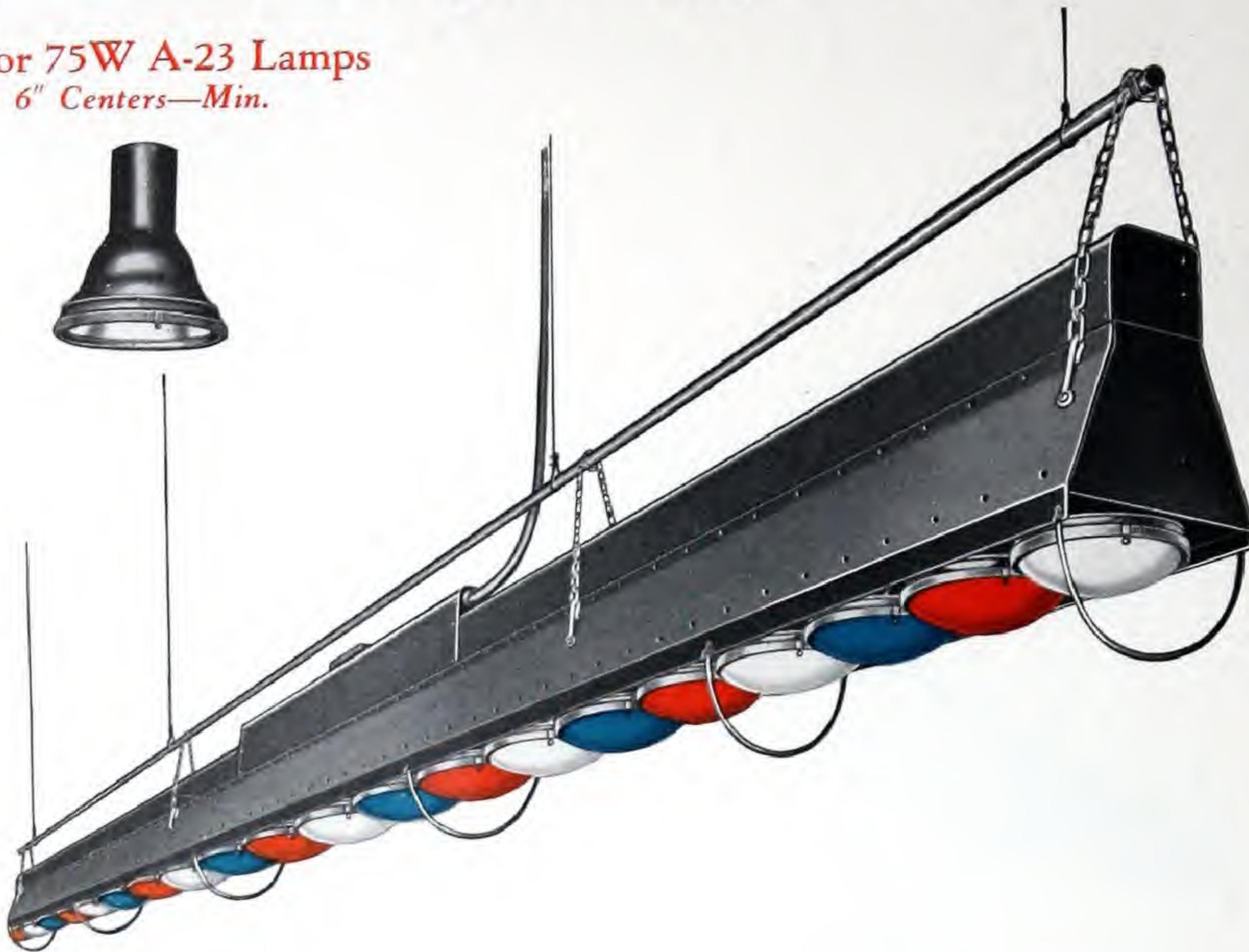
List Price, Each \$12.00



Borderlights Type B-106

100W or 75W A-23 Lamps

6" Centers—Min.



HERE has been considerable demand for a Major Borderlight using 100W and 75W lamps, and we present here-with a small borderlight as fine in construction and design as the larger units. It has the new Major patented slip ring attached to spun copper chromium plated reflectors. This is a splendid borderlight where less wattage is desired.

LIST PRICES

Cat. No. B106—Borderlight. Furnished complete with new moulded medium base sockets, properly wired for colors and circuits (per specification) with new terminal connection block, including chain hangings, with one Pyrex glass roundel (any color) for each reflector. The new Major Slip Ring is part of each reflector. Shipping weight, 14 lbs. per foot. **List Price, Per Foot \$16.00**
Above price does not include lamps, gelatine, pipe batten, strain insulator, flexible borderlight cable or rigging of any kind.

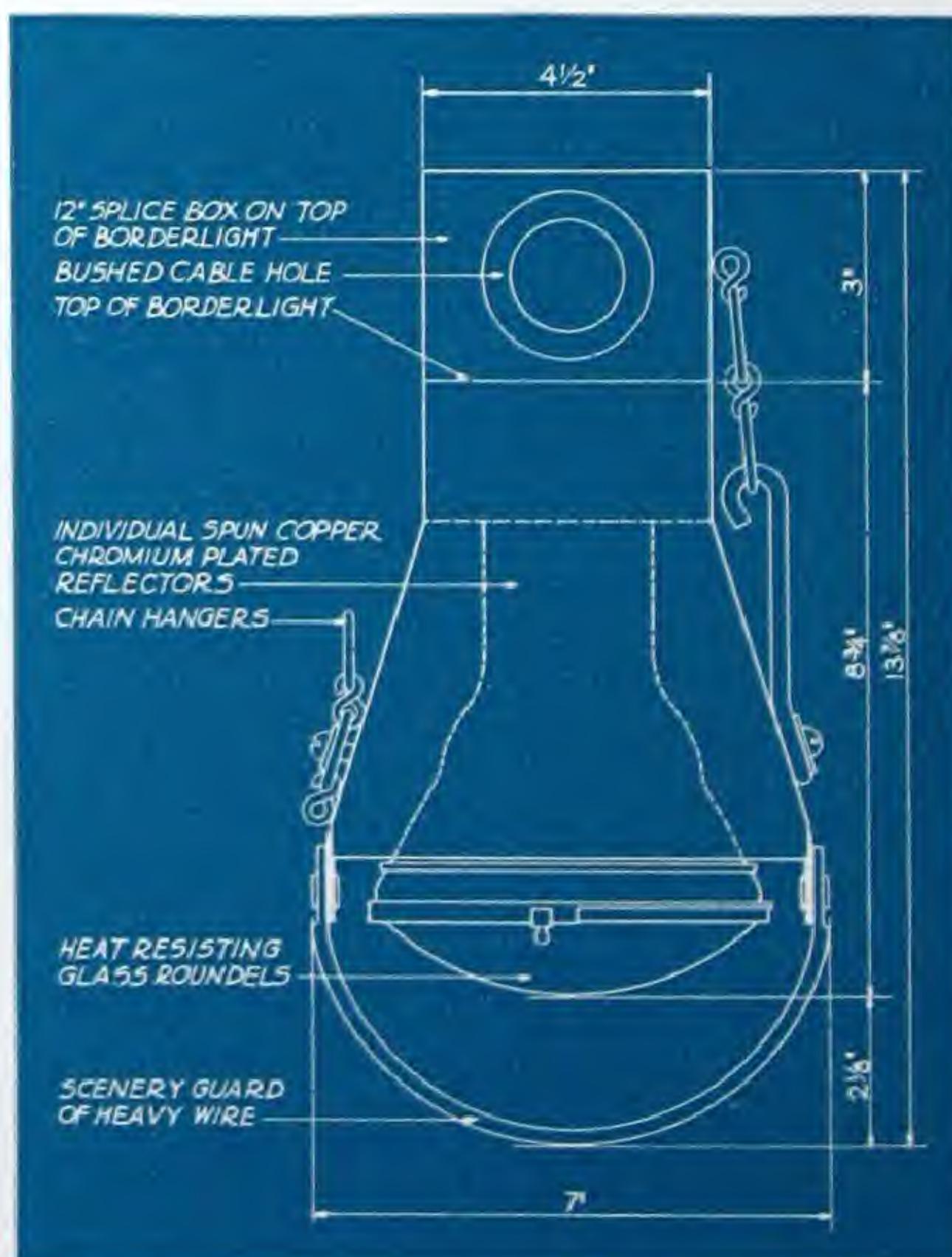
Extra heat resisting Pyrex convex shaped diffusing glass roundels, clear, blue, amber, red, green, canary. **List Price, Each \$2.00**

Gelatine color frames. **List Price, \$1.00**

Imported gelatine in 20" x 22" sheets, in colors. **List Price, Per Sheet 30c**

For furnishing and mounting special receptacle (for spotlight or upper worklight), and complete wiring of same on separate circuit, add. **List Price, Each \$8.00**

Special No. W-150 upper worklight unit for mounting on pipe batten, with pipe clamp, including cable and plug for plugging in special receptacle in borderlight. **List Price, Each \$12.00**



Borderlights and Footlights for Bare Lamps

100W A-23 Lamps or Smaller
4" Centers—Min.

The continuous double chromium plated reflector is not usually found on borderlights of this type, but is standard with Major.

So much attention has been devoted to Unit Reflector Types that this new design for bare lamps is the first departure in years. Here is equipment that matches in construction the Unit Reflector Types and is very satisfactory where bare lamps are desired. This borderlight requires natural color lamps or lamps dipped for color effects.



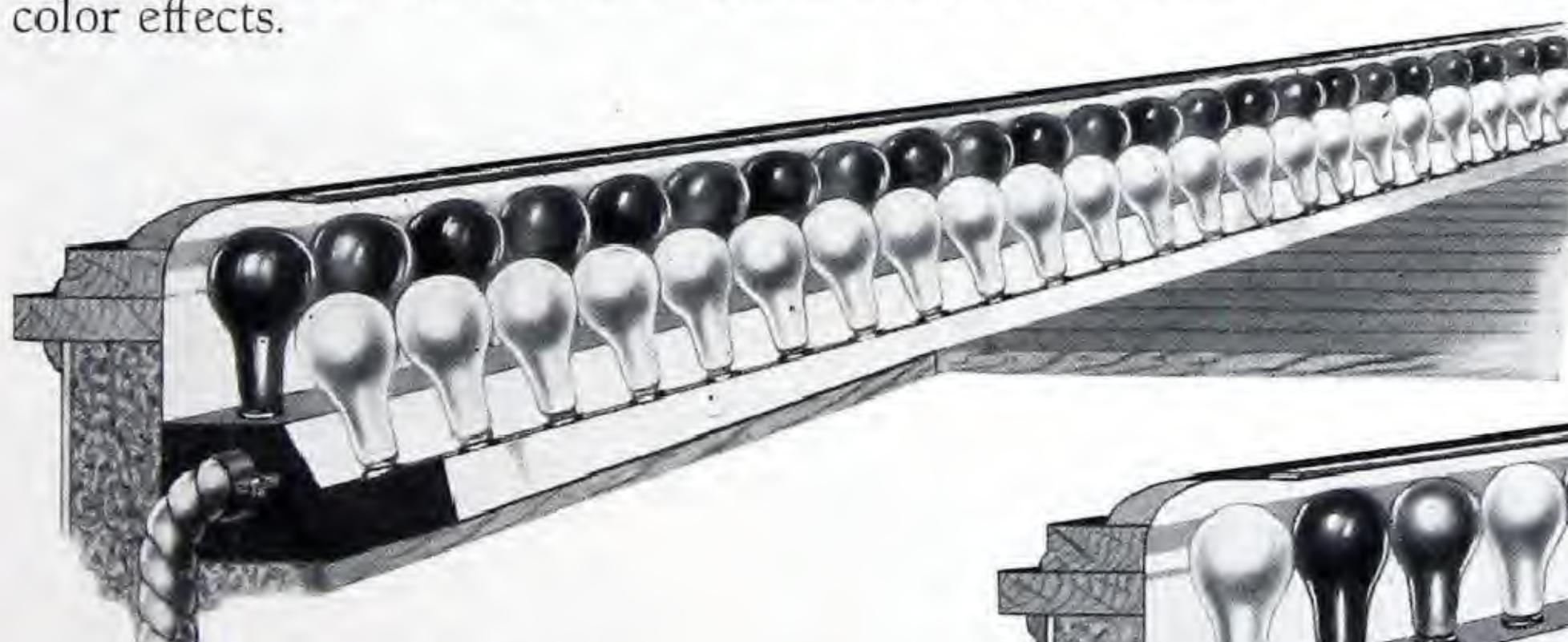
LIST PRICE—Borderlight Type B-103

Bare Lamp Borderlight, complete with new Major moulded medium base sockets, properly wired for colors and circuits (per specifications) including chain hangers.

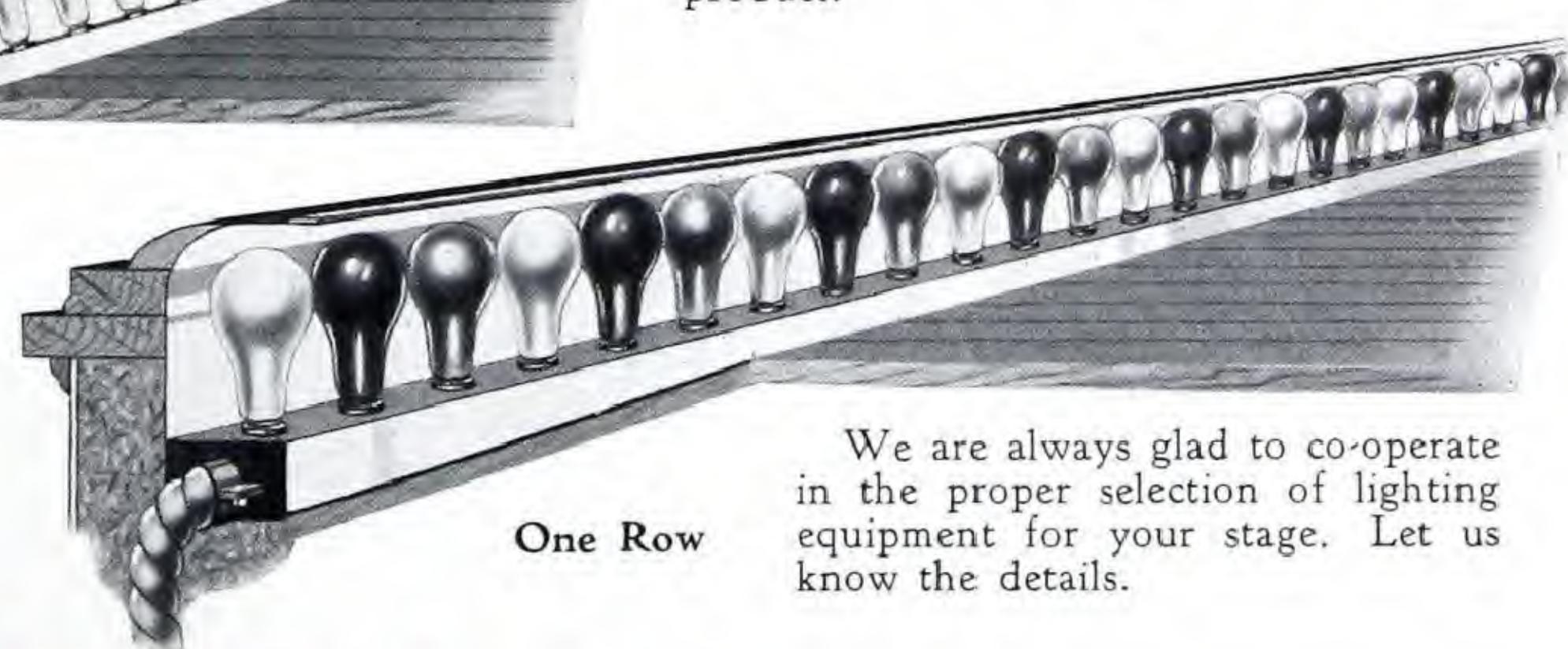
Cat. No. B-103..... List Price, Per Foot, \$8.00

Above price does not include lamps, pipe batten, or rigging of any kind. Shipping weight, 9 lbs. per foot.

These bare lamp types are used less frequently than before the advent of the unit reflector types, yet Major engineers construct them as carefully as if they were a principle product.



Two Row



One Row

We are always glad to co-operate in the proper selection of lighting equipment for your stage. Let us know the details.

LIST PRICE—Footlights Types F63 and F63-2

One Row Bare Lamp Footlight—Complete with Major moulded medium base sockets and properly wired for colors and circuits (per specification). Shipping weight, 7 lbs. per foot.

Cat. No. F63..... List Price, Per Foot \$4.00

Above price does not include reflector back, lamps or gutter lining and is based on a wiring box of straight construction.

For Curved Construction..... Foot, Additional \$2.00

Two Row Bare Lamp Footlight, complete with new Major moulded medium base sockets, properly wired for colors and circuits (per specifications). Shipping weight, 9 lbs. per foot.

Cat. No. F-63-2..... List Price, Per Foot \$10.00

Above price does not include the reflector back, lamps or gutter lining and is based on a wiring box of straight construction.

For Curved Construction..... Per Foot, Additional \$4.00

Footlight Features

EXAMINE closely the construction of this new Major unit. Note how simple, strong and efficient it is. Each reflector is held firmly in place by two screw and bayonet fastenings, yet it can be quickly and easily removed for cleaning. The top row is the Major straight

type and the lower row the angle type Major reflector. Lamps in both types screw straight in.

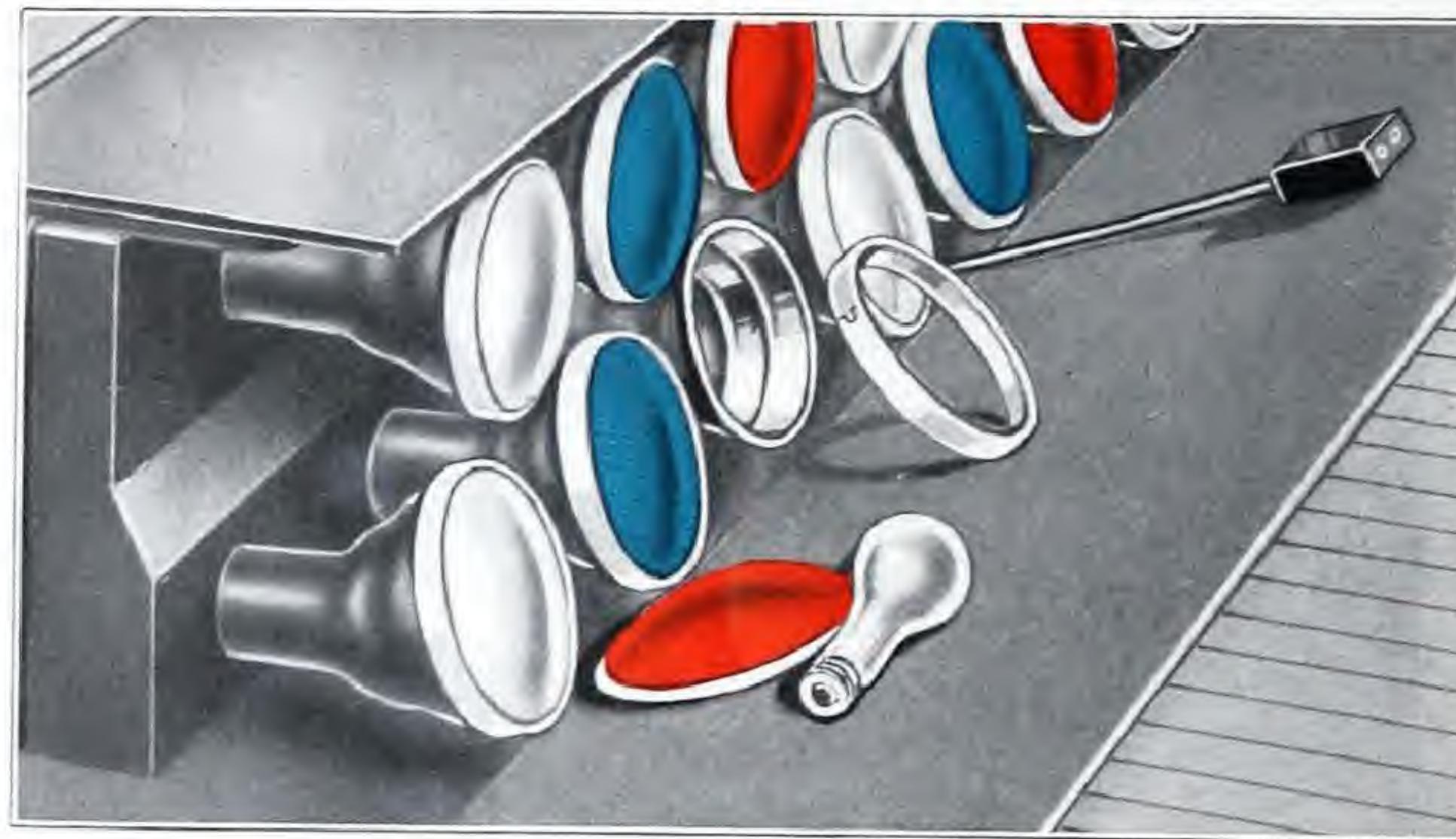
There is no slide contact or plug in electrical connection—the new Major molded socket, a standard sign receptacle type, is permanently wired, the reflector alone is the removable part.

Top of nosing is only 3" above stage level.

For special baby spots, etc., in footlight trough we provide cable with slip connector.

Spun copper chromium plated, or oxidized aluminum reflectors of highest efficiency.

Moulded Pyrex heat-resisting glass roundel, natural colors or clear. Lays in a special groove in reflector, cannot fall out or in.



Permanently wired sockets on 6" centers (minimum) in each row. Separate screws are provided for holding reflectors to permit reflectors' removal without disturbing socket.

The reflector closely "hugs" the base of lamp, giving at least 18% more efficiency by greater area; also note lamp is completely enclosed.

Push Bayonet Type Retaining Ring to prevent light leakage.

Footlight Reflectors

CHROMIUM is the hardest commercial metal in use, being somewhat harder than carborundum, and also harder than tool steel. Polished chromium presents a highly specular surface and is not affected by any gas or liquid, except two concentrated acids. For this reason it is not subject to oxidation and deterioration like other metal reflecting surfaces, so it will retain its reflection factor indefinitely.

The only maintenance required for chromium plated copper reflectors is occasionally washing with water. Because of its specular surface, chromium is very desirable for fairly narrow beam reflectors, or, in fact, any

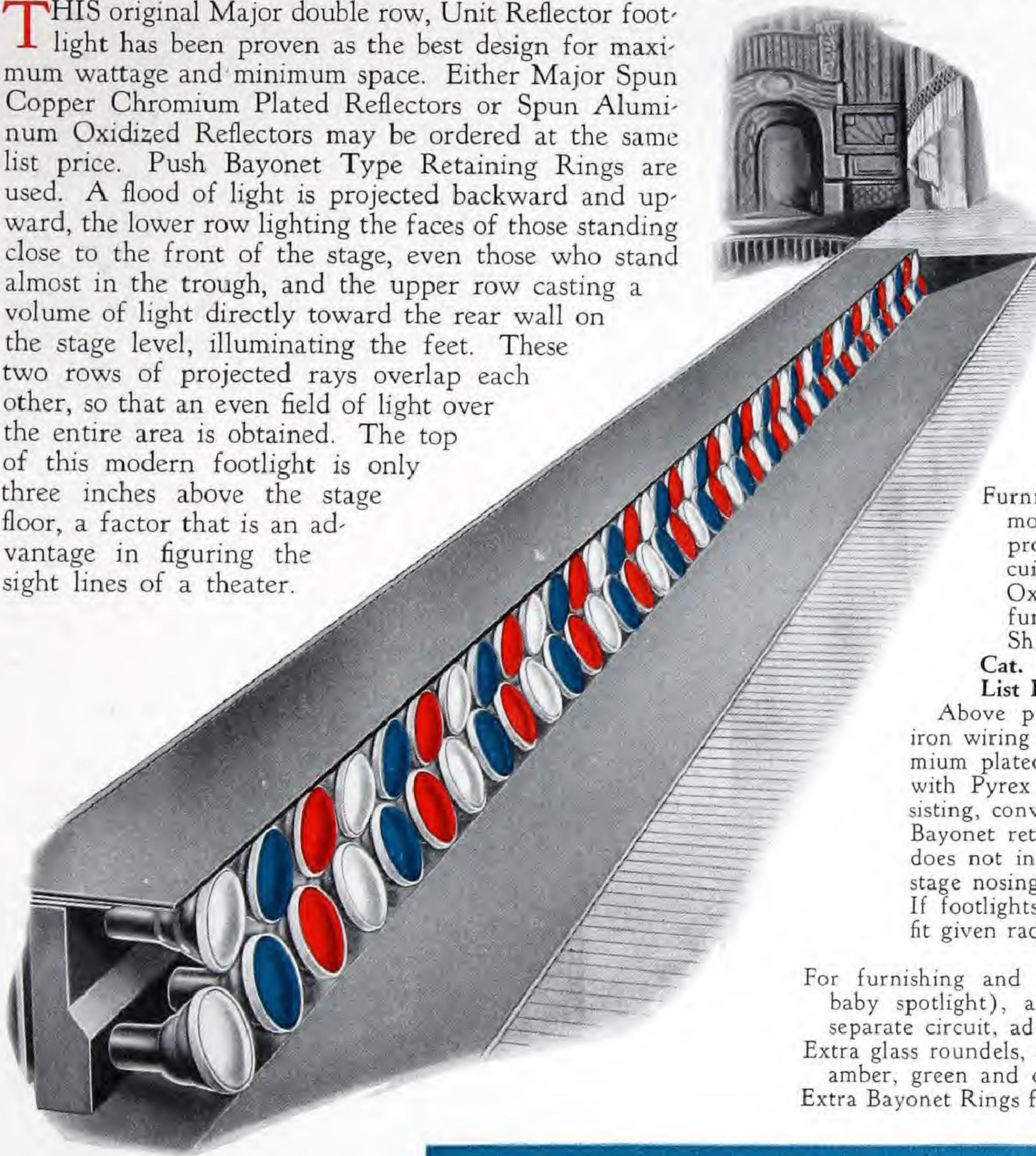
reflectors where accurate beam control is desired.

For certain other purposes where maintenance is comparatively simple and where it is desired to have a spread beam with high initial efficiency, oxidized aluminum reflectors prove satisfactory. Careful tests show that for certain of the Major line of footlights it would be desirable to use oxidized aluminum reflectors, and for this reason these are illustrated and listed for the Types F156 and F2R156 footlights. However, for either of these three footlights, polished chromium plated spun copper reflectors will be furnished at no additional cost if the footlight in question is so ordered.

MAJOR

Footlights Type F2R-156

THIS original Major double row, Unit Reflector footlight has been proven as the best design for maximum wattage and minimum space. Either Major Spun Copper Chromium Plated Reflectors or Spun Aluminum Oxidized Reflectors may be ordered at the same list price. Push Bayonet Type Retaining Rings are used. A flood of light is projected backward and upward, the lower row lighting the faces of those standing close to the front of the stage, even those who stand almost in the trough, and the upper row casting a volume of light directly toward the rear wall on the stage level, illuminating the feet. These two rows of projected rays overlap each other, so that an even field of light over the entire area is obtained. The top of this modern footlight is only three inches above the stage floor, a factor that is an advantage in figuring the sight lines of a theater.



Note the compact arrangement of the reflectors and the clean, straight lines of the wiring box.

Full size blueprint for plans or installation will be furnished upon request. All dimensions and information are given for the most practical and efficient construction.

Either Spun Copper Chromium Plated Reflectors or Spun Aluminum Oxidized Reflectors, Choice Optional.

**Two Row
150W PS-25 Lamps
6" Centers Min. Each Row**

LIST PRICES

Furnished complete with new Major molded medium base sockets and properly wired for colors and circuits (per specification furnished us). Oxidized aluminum reflectors will be furnished unless otherwise ordered. Shipping weight, 20 lbs. per foot.

Cat. No. F2R-156

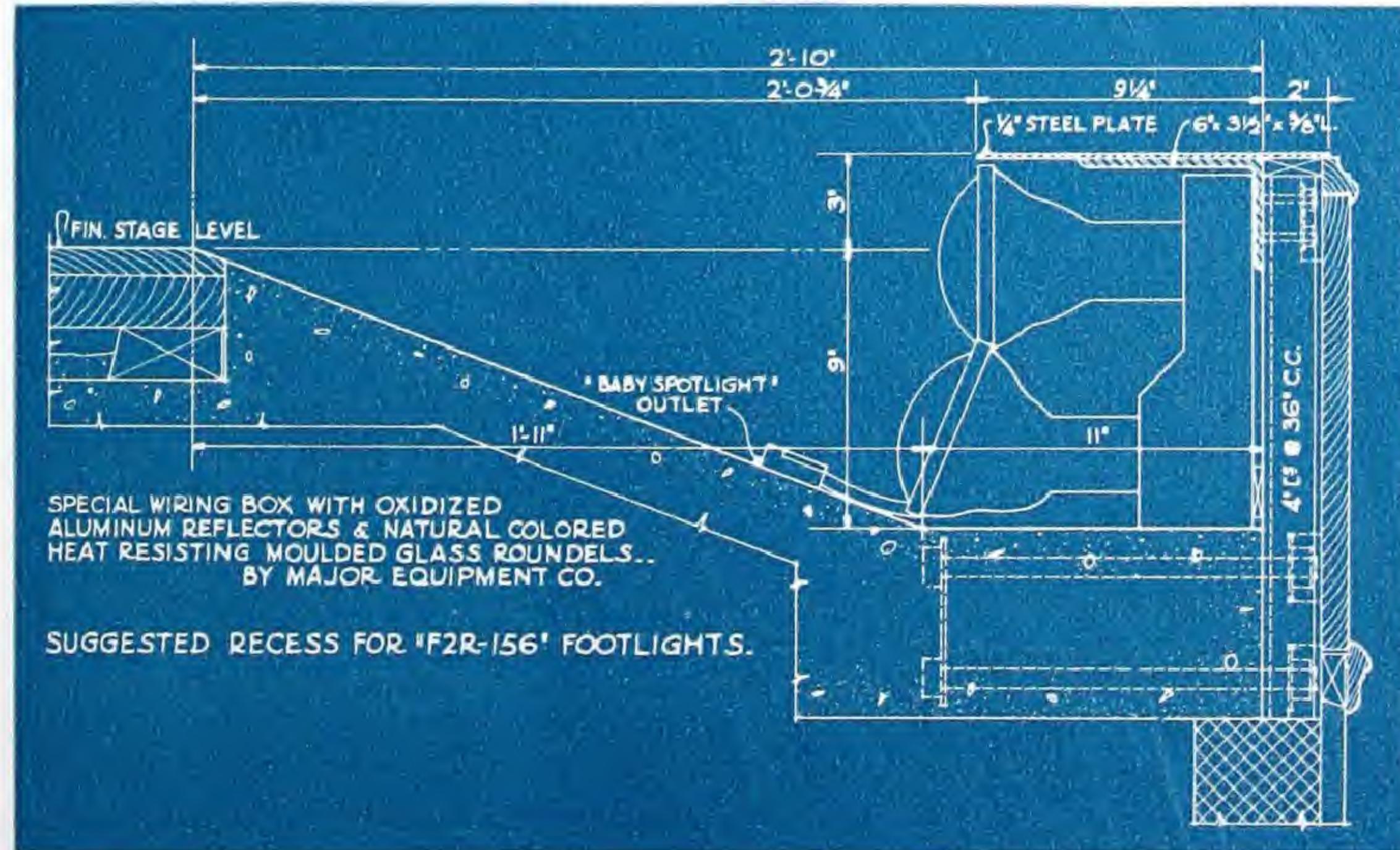
List Price.....Per Foot \$24.00

Above price includes 20-gauge galvanized iron wiring box, individual spun copper chromium plated or oxidized aluminum reflectors, with Pyrex clear or natural colored heat resisting, convex shaped, diffusing roundels and Bayonet retaining ring for each socket. Price does not include any lamps, gutter lining or stage nosing.

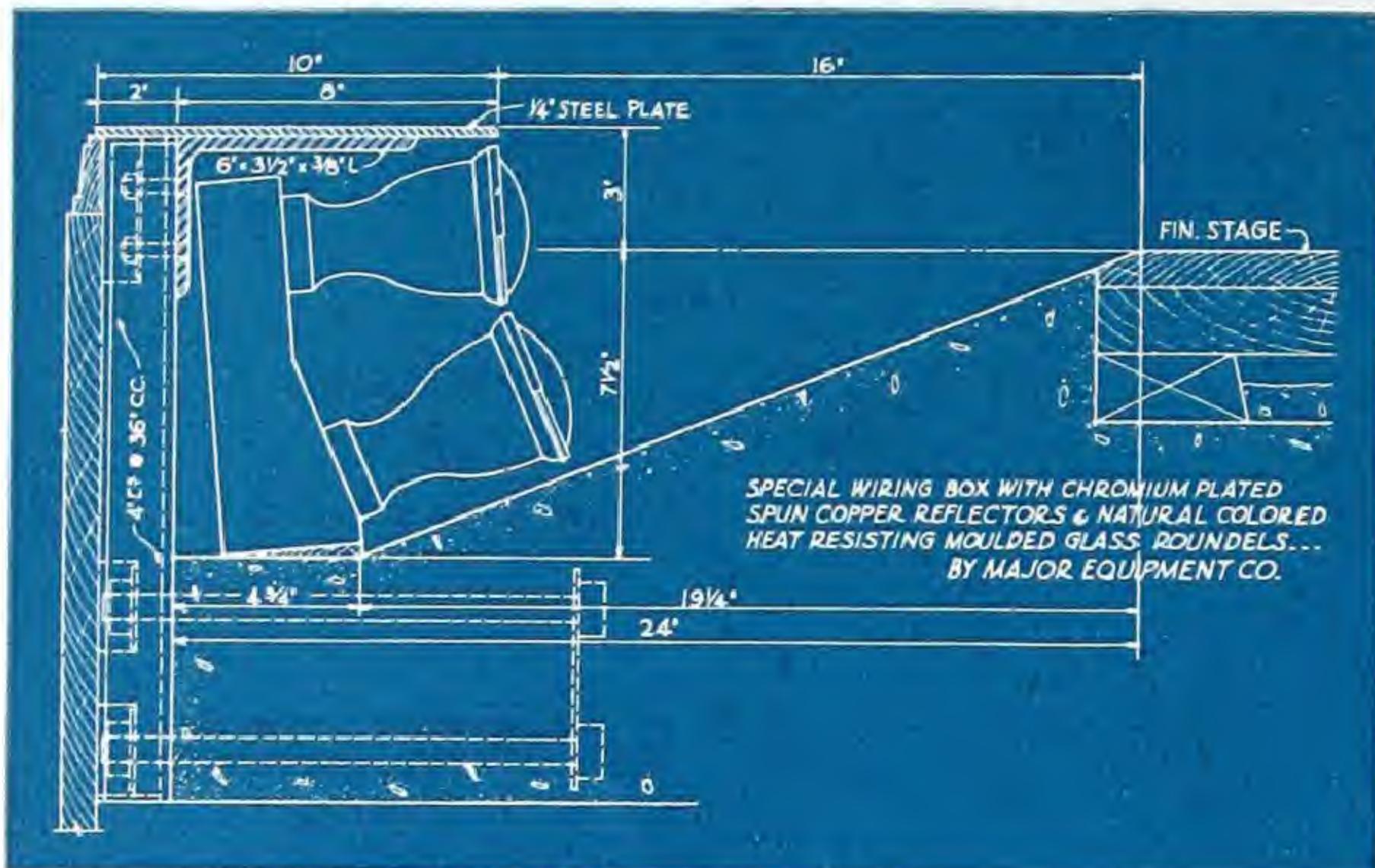
If footlights are to be curved construction to fit given radius, add to above

List Price, Per Foot \$4.00

For furnishing and mounting special receptacle (for baby spotlight), and complete wiring of same on separate circuit, add.....**List Price, Each \$10.00**
Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....**List Price, Each \$2.00**
Extra Bayonet Rings for roundels.....**List Price, Each 50c**



Footlights



F2R104

100W or 75W A-23—4" O. C. Min.
Each Row

In this type of Major footlight we bring to the smaller units the same capable engineering and construction afforded in the larger group. Colored roundels are available (as specified), and the new feature of Major Slip Ring is used.

LIST PRICES

Furnished complete with new Major molded medium base sockets and properly wired for colors and circuits (per specification furnished us). Shipping weight 20 lbs. per foot.

Cat. No. F2R-104.....List Price, Each \$24.00

Above price includes 20-gauge galvanized iron wiring box, individual spun copper chromium plated reflectors, with Pyrex clear or natural colored heat resisting convex shaped diffusing roundels and slip type retaining ring for each socket. Price does not include any lamps, gutter lining or stage nosing.

If footlights are to be curved construction to fit given radius, add to above.....List Price, Per Foot \$4.00

For furnishing and mounting special receptacle (for baby spotlight), and complete wiring of same on separate circuit, add.....List Price, Each \$10.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....List Price, Each \$1.00

F2R64

60W or 50W A-21
4" O. C. Min. Each Row

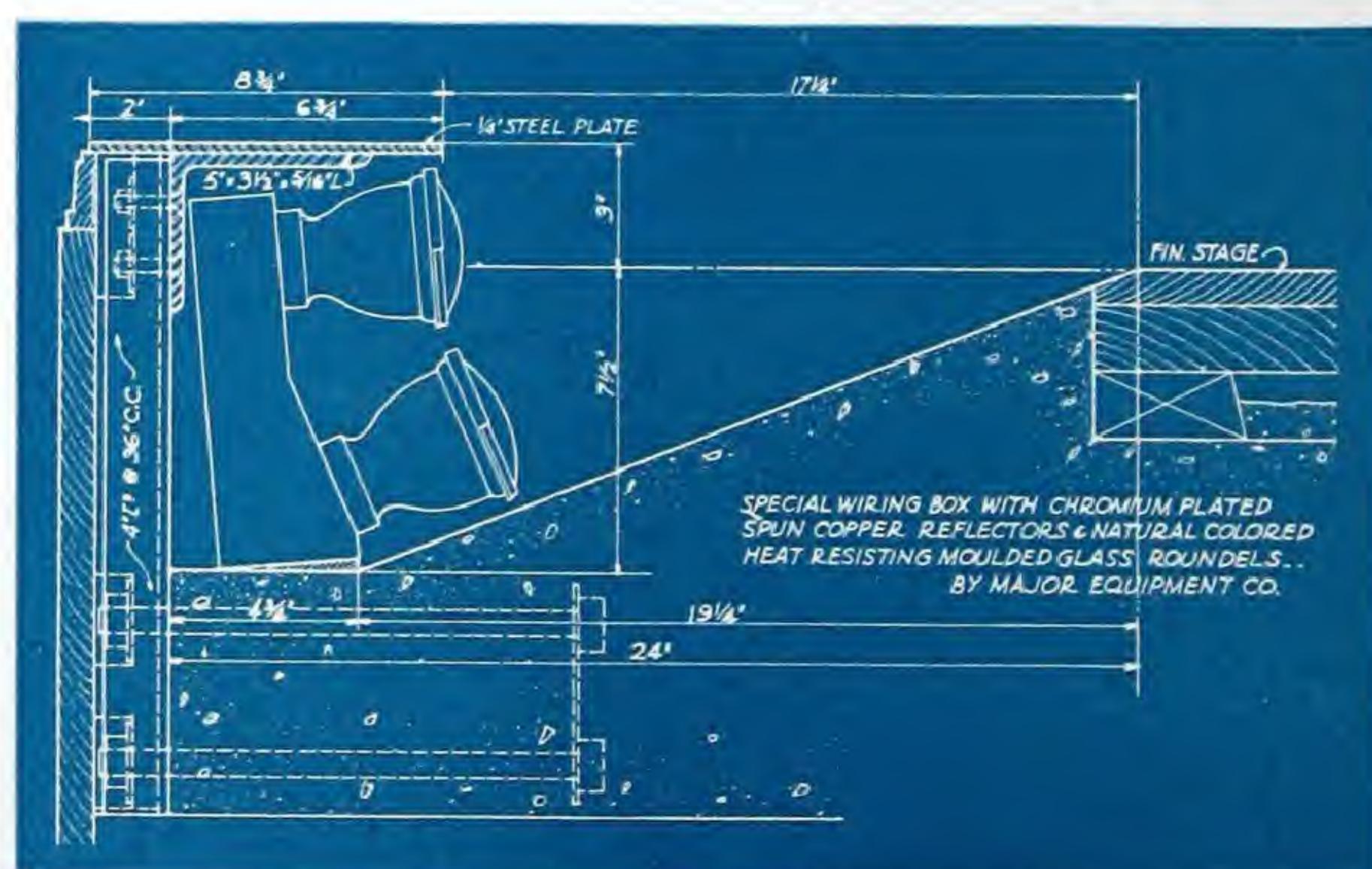
One of the very practical features of these small footlights is the reduction of distance above the stage to the masking apron which, as the blueprint shows, is only three inches. In using the small wattage lamps there is every need of the high efficiency of Major chromium reflectors and this will be a very practical installation for small theaters.

Furnished complete with new Major molded medium base sockets and properly wired for colors and circuits (per specification furnished us). Shipping weight, 20 lbs. per foot.

Cat. No. F2R-64.....List Price, Per Foot \$22.00

Above price includes 20-gauge galvanized iron wiring box, individual spun copper chromium plated reflectors, with Pyrex clear or natural colored heat resisting convex shaped diffusing roundels and slip type retaining ring for each socket. Price does not include any lamps, gutter lining or stage nosing.

If footlights are to be curved construction to fit given radius, add to above.....List Price, Per Foot \$4.00



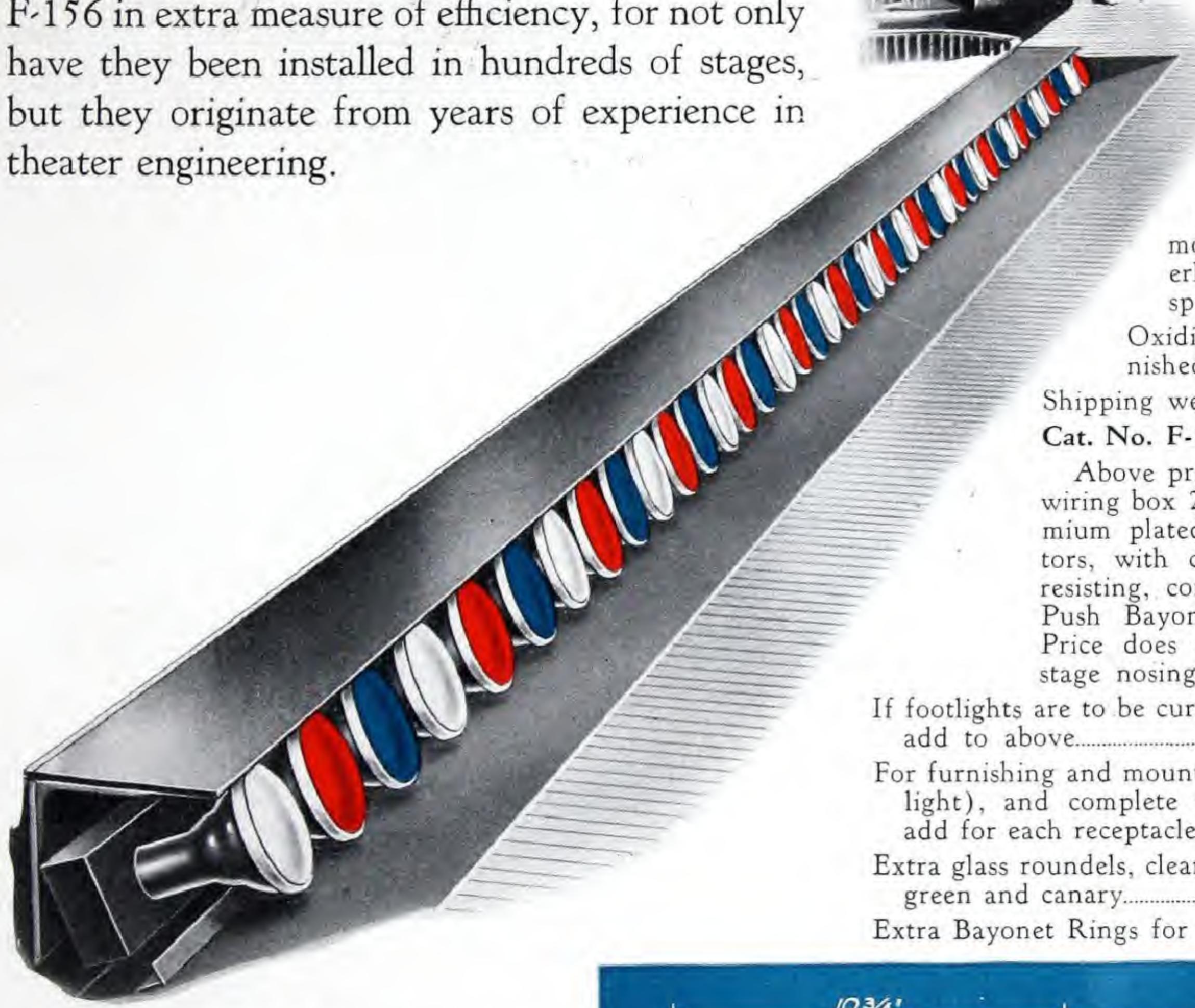
For furnishing and mounting special receptacle (for baby spotlight) and complete wiring of same on separate circuit, add.....List Price, Each \$10.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....List Price, Each \$1.00

Footlights Type F156

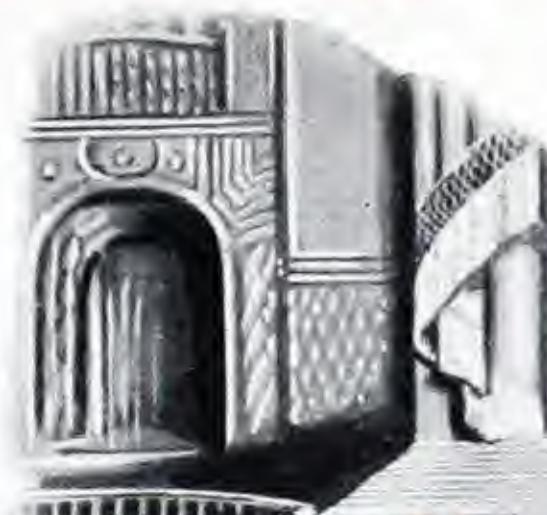
Either Spun Copper Chromium Plated Reflectors or Spun Aluminum Oxidized Reflectors, Choice Optional

IN CHOOSING a footlight there are the basic factors of volume and spread of light, clearance of sight lines, sturdy construction, and ease of maintenance. These are all fulfilled by the F-156 in extra measure of efficiency, for not only have they been installed in hundreds of stages, but they originate from years of experience in theater engineering.



The selection of spun copper chromium plated or spun aluminum oxidized reflectors is based on the type of stage show to be shown and the depth of stage. Our engineers will be glad to help you decide.

Full-sized working drawing for plans or installation will be furnished upon request. All dimensions and information are given for the most practical and efficient construction.



One Row
150W PS25 Lamps
6" Centers—Min.

LIST PRICES

Furnished complete with new Major molded medium base socket and properly wired for colors and circuits (per specifications furnished us).

Oxidized aluminum reflectors will be furnished unless otherwise ordered.

Shipping weight, 15 lbs. per foot.

Cat. No. F-156.....List Price, Per Foot \$14.00

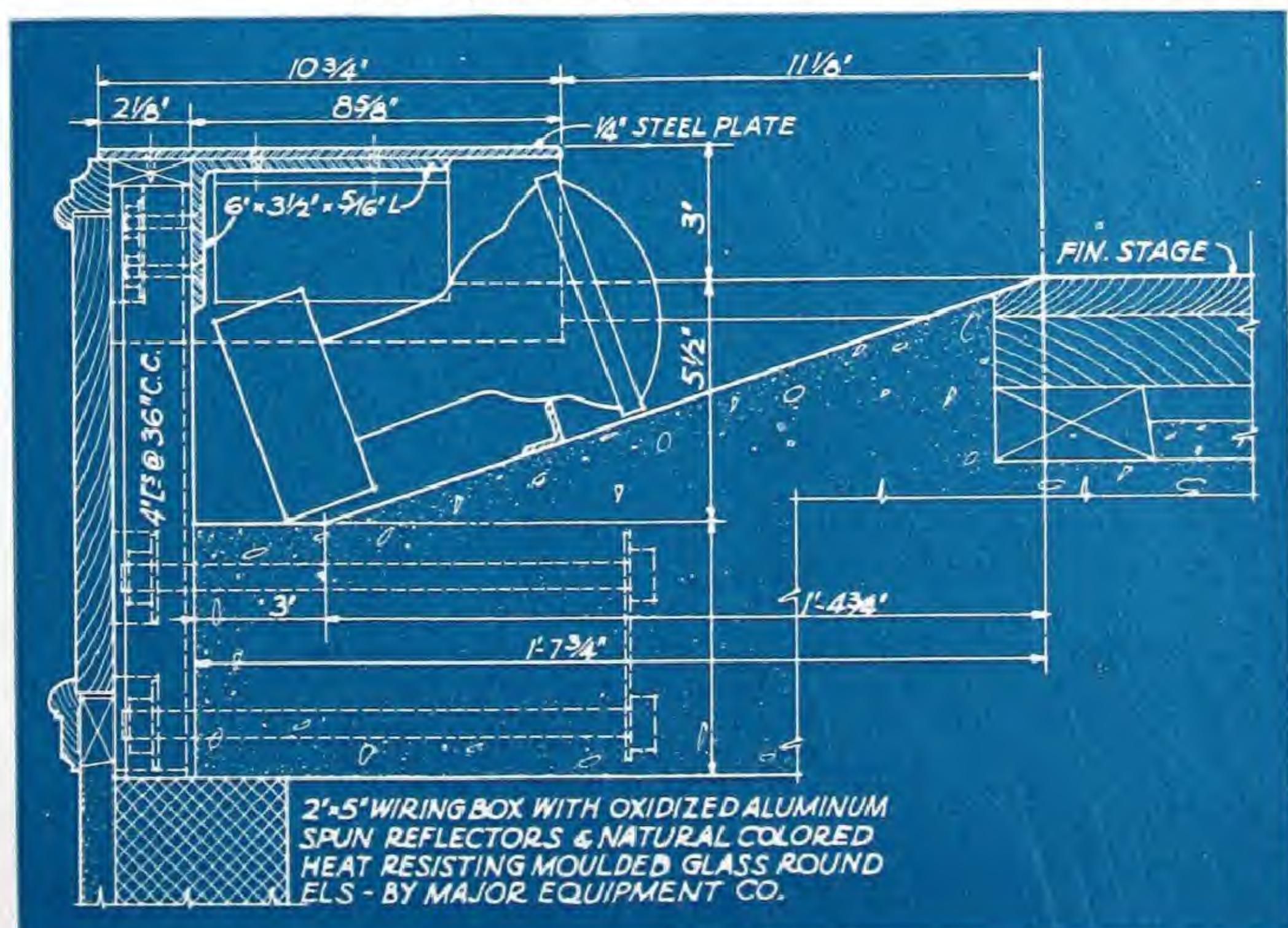
Above price includes 20 gauge galvanized iron wiring box 2" x 5", individual spun copper chromium plated or spun aluminum oxidized reflectors, with clear or natural colored Pyrex heat resisting, convex shaped, diffusing roundels and Push Bayonet Retaining Ring for each lamp. Price does not include lamps, gutter lining or stage nosing.

If footlights are to be curved construction to fit a given radius, add to above.....**List Price, Per Foot \$2.00**

For furnishing and mounting special receptacle (for baby spotlight), and complete wiring of same on separate circuit, add for each receptacle desired.....**List Price, Each \$10.00**

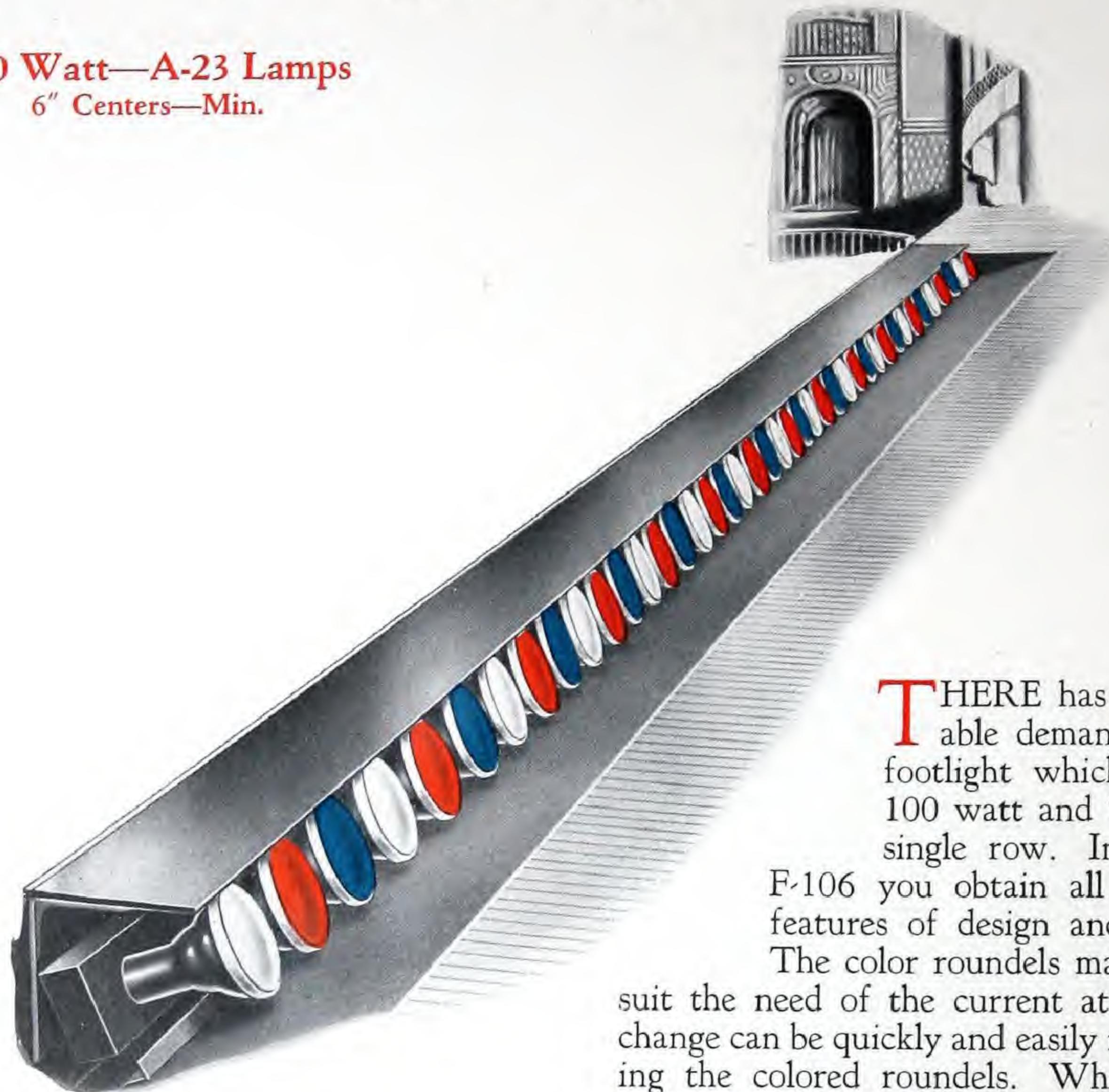
Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....**List Price, Each \$2.00**

Extra Bayonet Rings for roundels.....**List Price, Each 50c**



Footlights Type F106

100 Watt—A-23 Lamps
6" Centers—Min.



LIST PRICES

Furnished complete with new Major molded medium base socket and properly wired for colors and circuits (per specifications furnished us). Shipping weight, 15 lbs. per foot.

Cat. No. F-106.....List Price, Per Foot \$14.00

Above price includes 20-gauge galvanized iron wiring box 2 x 5", individual spun chromium plated reflectors, with clear or natural colored Pyrex heat resisting convex shaped diffusing roundels and slip type retaining ring for each lamp. Price does not include lamps, gutter lining or stage nosing.

If footlights are to be curved construction to fit a given radius, add to above.....

List Price, Per Foot \$2.00

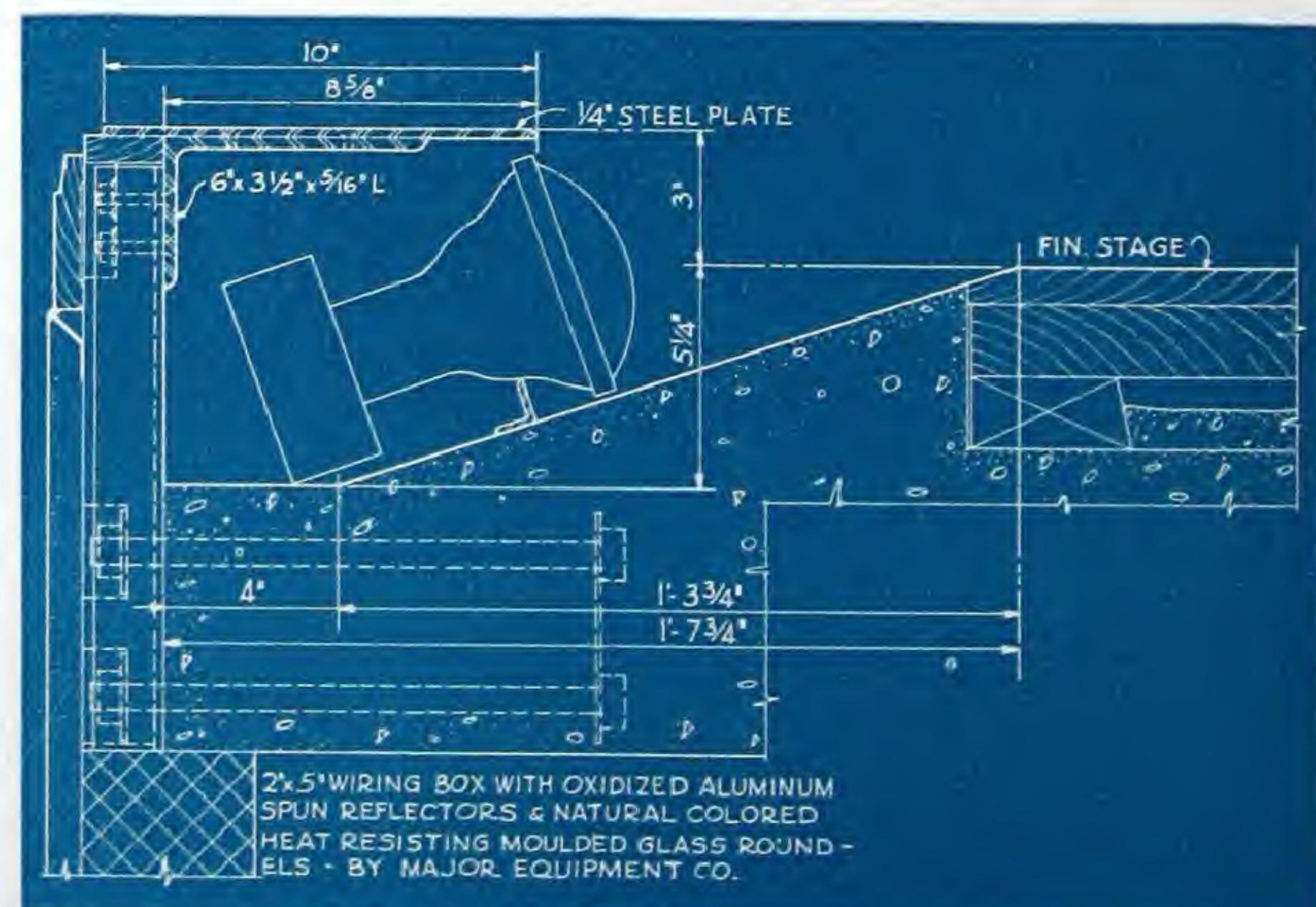
For furnishing and mounting special receptacle (for baby spotlight), and complete wiring of same on separate circuit, add for each receptacle desired.

List Price, Each \$10.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....

List Price, Each \$2.00

HERE has been considerable demand for a Major footlight which will use the 100 watt and 75 watt lamps, single row. In selecting the F-106 you obtain all of the Major features of design and construction. The color roundels may be varied to suit the need of the current attraction as the change can be quickly and easily made by changing the colored roundels. While the volume of light necessarily is not as great as with the larger units, yet the efficiency of the reflectors makes the most out of the wattage used.



Disappearing Footlights

THE tremendous popularity of Major Disappearing Footlights all over the country attest to their efficiency, practicability, and adaptability for all small stages. Built in five-foot sections, each complete and wired ready for connecting, this Major Unit is a wonderfully useful footlight for Schools, Colleges, Masonic and other fraternal auditoriums, and all manner of installations where the stage is used, part of the time for theatricals and part of the time as a

lecture platform. The appreciation of the low cost of installing these footlight sections is part of their unmatched quality and design.

On this and succeeding pages the new Major advantages are described. To the experienced, there is reason for enthusiasm, for, certainly, no more simple and "foolproof" device has ever been designed for this purpose. Easy to specify, easy to install and easy to use.

Unlock

A simple turn on three flush latches releases the footlight.



These Major Footlights have a new, unique method of retaining the advantage of permanently wired connections without the danger of lights burning after the footlight has been put away. The current is automatically cut off by a positive, durable disconnect. They are turned on, also automatically, so that the footlights are ready for operation when open. Of course, the various circuits are controlled for the performance from the stage switchboard in the usual manner.

Half-Open

It automatically swings on a pivot to this position.



Ready for Use

in 20 Seconds



Open position. The switches have snapped to the "lights on" position, and by turning the center flush latch again the footlight is in place ready for the performance.

The addition of the New Patented Major Slip Ring on each reflector is a feature worth talking about.

Disappearing Footlights



Heavy malleable iron main support bracket, assuring strength, rigidity and smooth operation.

Sturdy cross arm support holds swinging floor solid in either open or closed position. All joints mortised and tenoned and glued. A workmanlike cabinet job.

Heavy bracket stop for open position.

Kiln dried heavy maple floor and frame. Cannot warp or crack. All joints mortised, tenoned and glued. Wood panels are kiln dried and soaked in linseed oil to prevent warping. Each section is furnished 5-ft. 2-in. long to allow a 1-inch trim at each end to permit properly fitting to finished stage floor or for trimming to an angle when units are set on a curve.

Automatically operated "off" and "on" switches, controlling all circuits in closed and open position. No danger of lights being left on accidentally or left off when footlights are in use. Switch box mounted directly on, and is a part of the wiring box.

Each Major Footlight section is wired complete and has super-service, flexible cables, three feet long, ready for connection in splice box in conduit system, and this splice box is furnished with each section.

Steel reinforced wiring trough and reflector enclosure.

Wedge shape drawtight latch for holding footlight in closed position. There are three of these, assuring a positive closed position. The center latch is used to keep footlight in the open position.

Natural colored Pyrex heat-resisting moulded glass diffusing roundels. Beautiful natural colors in blue, green, clear crystal, canary, amber and red.

List Prices—Disappearing Footlights



Type D-156



Type D-64



Type D-2R104



Type D-63B

Type D-156

Nine 150W Lamps Per 5-Foot Section

For a complete standard 5-foot unit, including wiring, splice boxes for contractors' conduit and circuit wiring, wood trim, wood swinging cover, wiring box and all wiring for three colors and three circuits, and automatic disconnect switch for each circuit. Including individual copper spun chromium plated reflector unit with clear or natural colored convex shaped heat-resisting diffusing roundels and new Major Patented Slip Rings.

List Price Per 5-Foot Section, \$120.00
(Not Including Lamps or Installation)

Extra glass roundels, clear or natural color, blue, red, amber, green and canary. **List Price, Each \$2.00**
Shipping weight 120 lbs. per 5-ft. section

Type D-64

Twelve 60W Lamps Per 5-Foot Section

For a complete standard 5-foot unit, including wiring, splice boxes for contractors' conduit and circuit wiring, wood trim, wood swinging cover, wiring box and all wiring for three colors and three circuits, and automatic disconnect switch for each circuit. Including individual copper spun chromium plated reflector unit, with clear or natural colored convex shaped heat-resisting diffusing roundels and new Major Patented Slip Rings.

List Price Per 5-Foot Section, \$100.00
(Not Including Lamps or Installation)

Extra glass roundels, clear or natural color, blue, red, amber, green and canary. **List Price, Each \$1.00**
Shipping weight 120 lbs. per 5-ft. section

Type D-2R104

Twenty-four 100W Lamps Per 5-Foot Section
Two Row

For a complete standard 5-foot unit, including wiring, splice boxes for contractors' conduit and circuit wiring, wood trim, wood swinging cover, wiring box and all wiring for three colors and three circuits, and automatic disconnect switch for each circuit. Including individual copper spun chromium plated reflector unit, with clear or natural colored convex shaped heat-resisting diffusing roundels and new Major Patented Slip Rings.

List Price Per 5-Foot Section, \$140.00
(Not Including Lamps or Installation)

Extra glass roundels, clear or natural color, blue, red, amber, green and canary. **List Price, Each \$1.00**
Shipping weight 130 lbs. per 5-ft. section

Bare Lamp Type D-63-B

Standard Is 15 Sockets Per 5-Foot Section

*Twelve or Eighteen sockets per section furnished
at no additional cost if so ordered.*

For a complete standard 5-foot unit, including continuous chromium plated reflector back for bare lamps, wiring, splice boxes for contractors' conduit and circuit wiring, wood trim, wood swinging cover, wiring box and all wiring for three colors and three circuits, and automatic disconnect switch for each circuit.

List Price Per 5-Foot Section, \$80.00
(Not Including Lamps or Installation)

Shipping weight 110 lbs. per 5-ft. section

Disappearing Footlights

THE problem of footlights for stages that are under a part of the time for lectures, gymnasium exhibits, and concerts, is most practically answered by the Major line of disappearing footlights. Made in four types, there is one which will suit particularly each stage requirement, and a word here will help clarify the selection. For general purposes we advocate the Type

D156, as it has been found to apply to most conditions. The other types in the unit reflector group are sometimes selected for specific reasons, one having a smaller group of single row lights and the other two row facilities. The bare lamp type is created to meet a demand for small installations, and requires the dipping of lamps or natural colored lamps to obtain color effects.

Specifications for Type D-156

The electrical contractor shall furnish and install in the recess provided in the stage floors () sections of Major D-156 disappearing footlights. Each section shall consist of a seasoned 1 $\frac{1}{4}$ " maple panel and frame, upon which shall be mounted a wiring box containing nine Major No. 54-B moulded sockets spaced 6" O. C. each fitted with a spun copper chromium plated reflector having a natural colored Pyrex heat-resisting diffusing glass roundel held in place by a Major patented slip ring.

Each section of footlights shall be equipped with cut-off switches which automatically turn off the current when the footlight section is closed, making it impossible to leave the lamps burning when the footlight is in the

closed position. The footlight shall be so constructed and installed that when they are closed they shall be flush with the stage floor and shall be held in the closed position with three catches.

Each section of footlight shall be provided with three 3' 0" leads of No. 14 Tyrex cable connected to the cut-off switches, and a cast aluminum splice box with knock-outs for the above cables and conduits.

The contractor shall install these splice boxes in the footlight recess as indicated on the drawing and shall furnish and install conduit with branch circuit wires, making all connections between branch circuit wires and flexible cables.

There shall be a total of:

- ()—150 watt lamps alternately wired for 3 colors
- ()—150 watt white on () circuits
- ()—150 watt red on () circuits
- ()—150 watt blue on () circuits

Suggestions for Uses

There are such a variety of uses for the Major Disappearing Footlights that we can give here but few suggestions. Probably the most widespread use is in schools and fraternal organizations. The facility with which these footlights can be put in position for use or hidden below the stage floor permits them to be applied to almost any situation requiring light from the floor level. As they are made in standardized unit sections, they come closest to being a "package product" in the field of theater lighting. With proper trough construction, illustrated on the page of blueprints showing installation, they can be set in place and quickly wired to circuits provided for that purpose. Various types of roundels, both clear and colored, are provided

to obtain effects very similar to those on the standard equipped stages, and the small theater can achieve very credible lighting results. It is to be remembered that when closed there is no obstruction of any kind above the stage, which permits it to be used exactly as though the footlights were not there.

They do not require skilled operation. A school boy can unlock and reverse them for position quite readily, and the electrical switch apparatus is automatic, so that it is connected with the current when open and disconnected when closed. The control of light is passed on to the stage switchboard, from which the lights can be turned on or off as desired.

Major Reflectors have new features

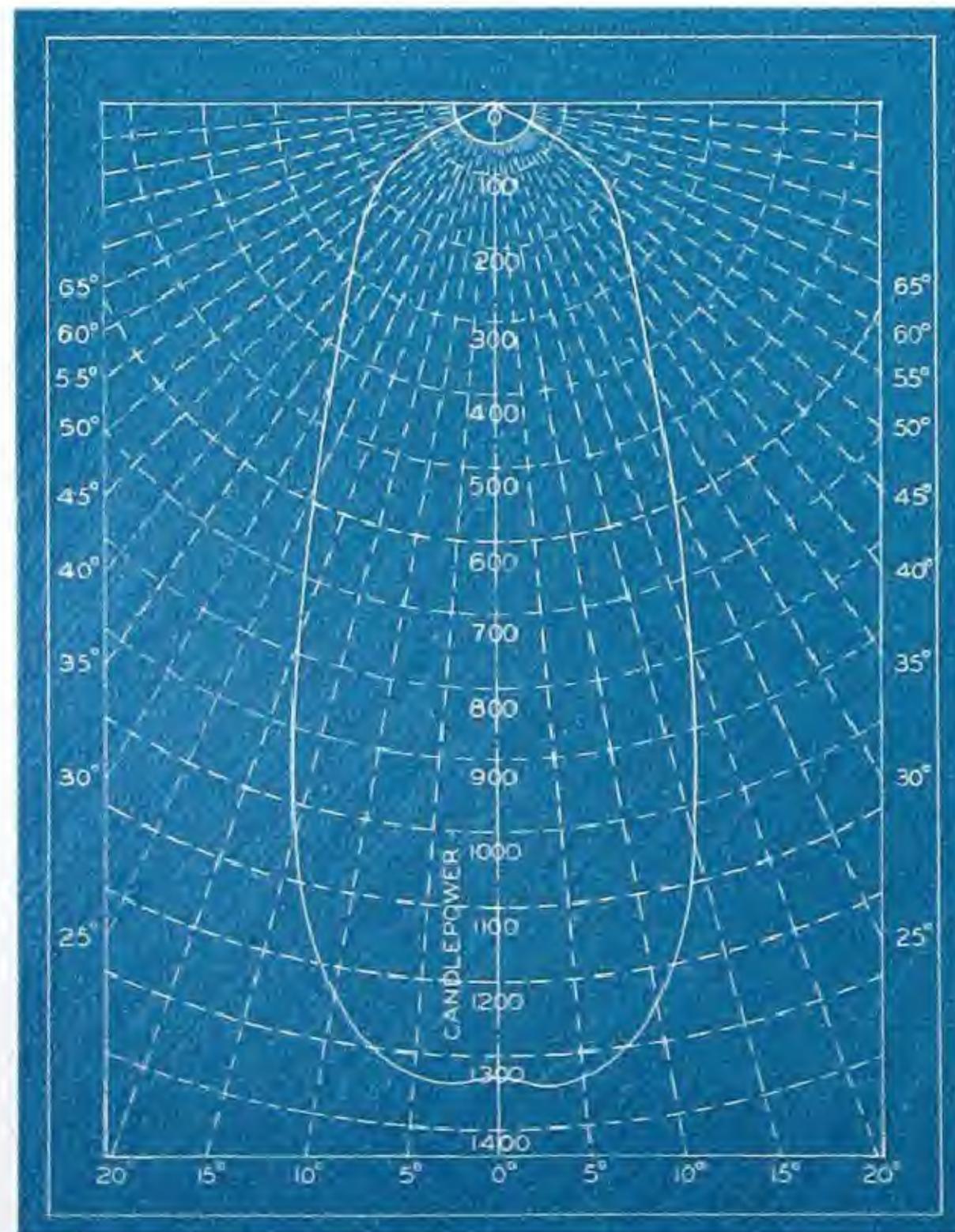
YEARS of use under all conditions have proven the efficiency and durability of Major chromium plated reflectors. To this proof of service has been added constant engineering effort to increase the value to users, and this year's line of reflectors has many new features. The most outstanding improvement is the addition of the new patented slip ring described elsewhere.

Chromium has a hardness next to the diamond, according to the Bureau of Standards, and the hardest commercial metal or alloy known. Polished chromium presents a highly specular surface with the reflection factor of 65. It maintains this high reflective efficiency longer than any other reflector, as it does not tarnish, is slow to collect dirt, and will not crack, peel, nor check. It is also very easy to clean.



Major Chromium Plated Reflector

To the left is shown the curve of an R-150 chromium plated reflector and was made with the same sized lamp and under the same conditions as the curve of the Oxidized Aluminum Reflector to the right.



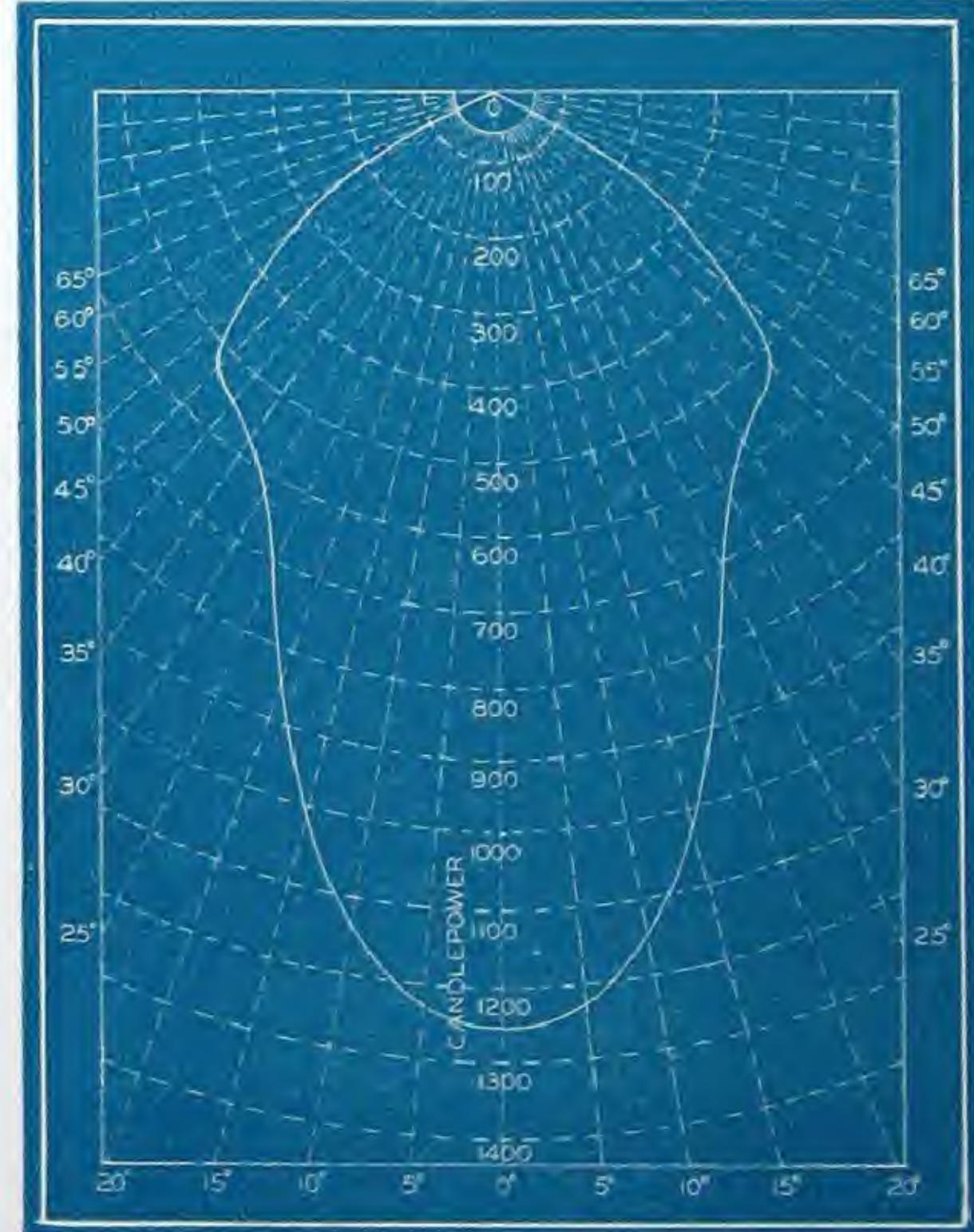
The line of Major reflectors has been greatly amplified to provide a wide range of size and beam angle. On following pages will be found the details of each. All types are standardized so that a wide variety of mountings can be used. They are spun of copper and have unusual structural strength. A complete equipment of pyrex heat-resisting, clear and colored glass is provided.

Chromium plated reflectors have more permanent efficiency and we recommend them over any other type. To meet a demand for an oxidized aluminum reflector we are supplying the same design of the Chromium Reflector, which has proven so effective in light projection, in spun aluminum with an oxidized reflecting surface. This is a splendid reflector of this type.

Major Oxidized Aluminum Reflector



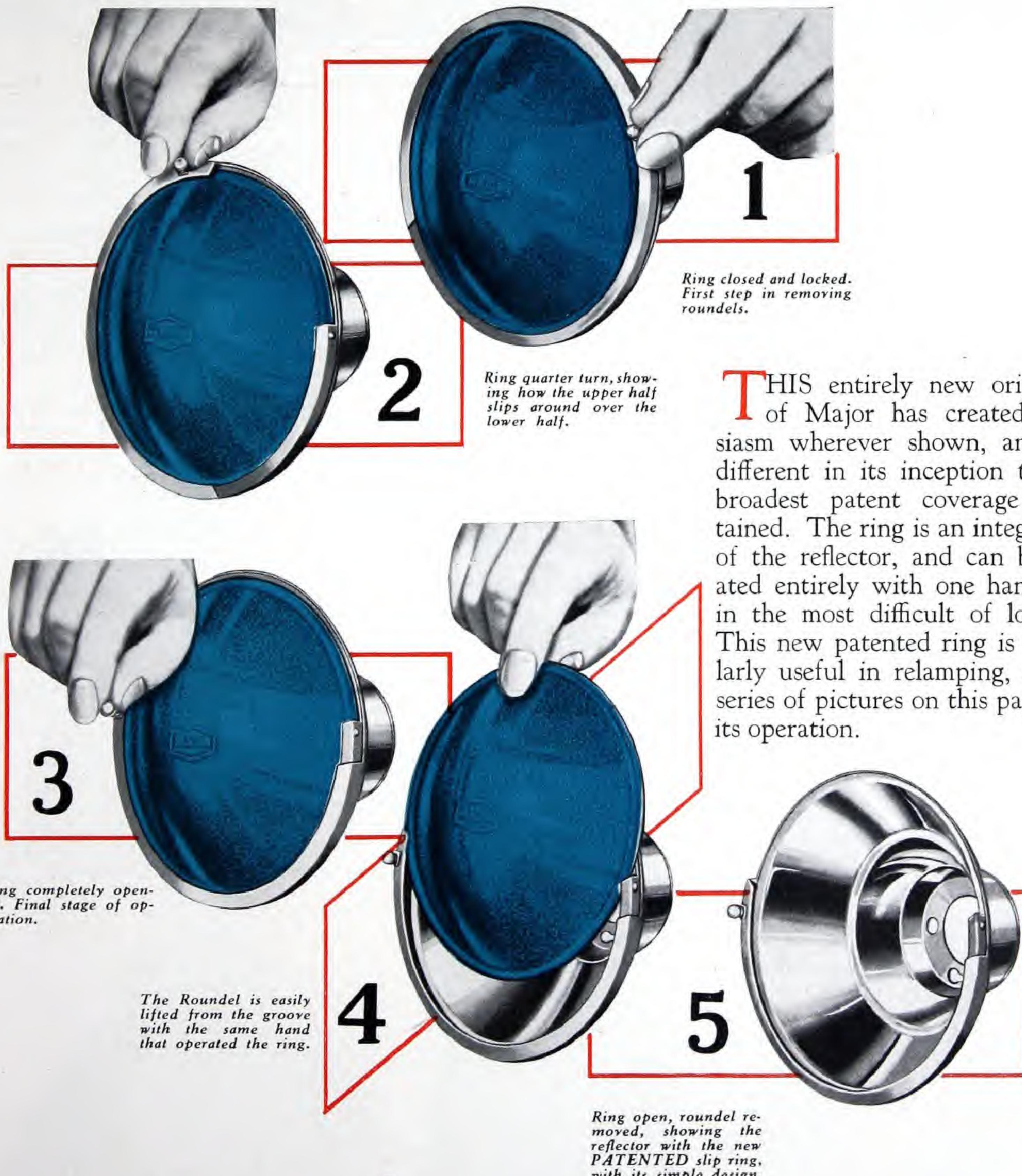
To the right is the curve showing the comparative efficiency of the Oxidized Aluminum Major Reflector. The size of the lamp and conditions are the same as the one shown on the left for chromium reflectors.



MAJOR

Once in a Lifetime — an idea like this!

New Patented Major Slip Ring



THIS entirely new origination of Major has created enthusiasm wherever shown, and is so different in its inception that the broadest patent coverage is obtained. The ring is an integral part of the reflector, and can be operated entirely with one hand, even in the most difficult of locations. This new patented ring is particularly useful in relamping, and the series of pictures on this page show its operation.

Narrow Beam Reflectors

Spun of Copper - Chromium Plated
Separate Mounting. Reinforced Mounting



THE Major line of narrow beam reflectors has been amplified to include a size to meet every requirement. They are all based on the original reflectors brought out for use in Major lighting equipment, which have been found to be very efficient. The expression "narrow beam" is used here comparatively as indicating

the narrowest beam consistent with compact mouth diameters for close spacing of reflectors. Complete lumen output data and distribution curves will be furnished upon request. The line, however, is eminently practical in its beam width, and will fulfill narrow beam requirements.



R-10AD

This has been one of the most useful combinations of reflectors and socket adapter, permitting the use of the intermediate base lamps in medium base sockets. The widest application has been in connection with signs. This design permits complete removal of reflector, roundel and lamp.

Spun copper reflector, chromium plated for 10W Type S-11 intermediate base lamp.
Cat. No. R-10-AD.....
Roundels for R-10-AD.....

List Price, Each \$1.75
List Price, Each 50c



R-10

Type R-10

Spun reflector, chromium plated, for 10 watt Type S-11 intermediate base lamp. Dimensions: A, 2 7/8"; B, 2 1/4"; C, 1 7/8"; D, 1/2".

Cat. No. R-10.....
List Price..... Each \$1.50
Roundels for R-10.....
List Price..... Each \$0.50



R-40

Type R-40

Spun reflector, chromium plated for 40 watt Type A-19 lamp. Dimensions: A, 5 3/4"; B, 4"; C, 2 3/8"; D, 1".

Cat. No. R-40.....
List Price..... Each \$2.75
Roundels for R-40.....
List Price..... Each \$2.00

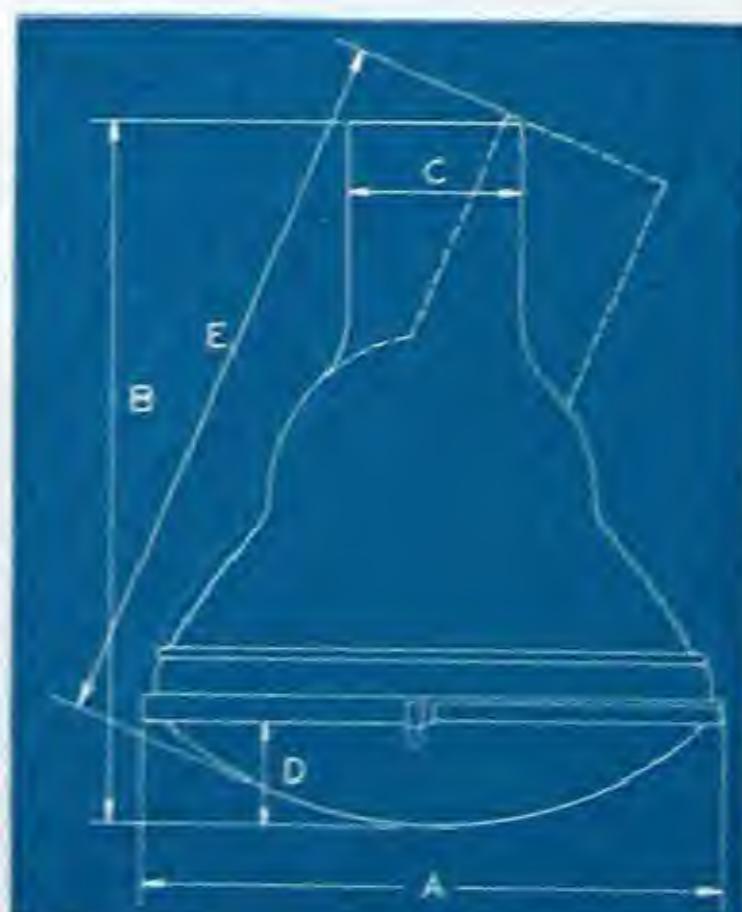


R-100

Type R-100

Spun reflector, chromium plated, for 100 watt or 75 watt Type A-23 lamps. Dimensions: A, 5 3/4"; B, 6 3/4"; C, 2 3/8"; D, 1".

Cat. No. R-100.....
List Price Each \$4.00
Roundels for R-100.....
List Price Each \$2.00



Type R-60

Spun reflector, chromium plated, for 60 watt or 50 watt Type A-21 lamps. Dimensions: A, 5 3/4"; B, 5 3/8"; C, 2 3/8"; D, 1".

Cat. No. R-60.....
List Price..... Each \$3.00
Roundels for R-60.....
List Price..... Each \$2.00



R-60

Type R-100-A

Spun reflector, chromium plated, for 100 watt or 75 watt Type A-23 lamps. Dimensions: A, 5 3/4"; C, 2 3/8"; D, 1"; E, 6 3/8".

Cat. No. R-100-A.....
List Price Each \$4.50
Roundels for R-100A.....
List Price Each \$2.00



R-100-A

Narrow Beam Reflectors

Type R-150

Spun reflector, chromium plated, for 150 watt Type PS25 lamps, or with socket extension 100 watt Type A-23 lamps. Dimensions: A, 5 3/4"; B, 7 5/8"; C, 2 3/8"; D, 1".

Cat. No. R-150

List Price..... Each \$4.50

Roundels for R-150

List Price..... Each \$2.00



R-150

Type R-150-A

Spun reflector, chromium plated, for 150 watt Type PS25 lamp, or with socket extension, 100 watt A-23 lamp. Dimensions: A, 5 3/4"; C, 2 3/8"; D, 1"; E, 7 1/2".

Cat. No. R-150-A

List Price..... Each \$5.00

Roundels for R-150-A

List Price..... Each \$2.00



R-150A

Type R-200

Spun reflector, chromium plated, for 200 watt Type PS30 lamp, or with socket extension, 150 watt Type PS25 lamp. Dimensions: A, 7 3/4"; B, 9 1/2"; C, 2 1/4"; D, 1 3/8".

Cat. No. R-200

List Price..... Each \$6.50

Roundels for R-200

List Price..... Each \$3.00



R-200

Type R-200-A

Spun reflector, chromium plated, for 200 watt Type PS30 lamp, or with socket extension, 150 watt Type PS25 lamp. Dimensions: A, 7 3/4"; C, 2 1/4"; D, 1 3/8"; E, 9 1/2".

Cat. No. R-200-A

List Price..... Each \$7.00

Roundels for R-200-A

List Price..... Each \$3.00



R-200A

Type R-500

Spun reflector, chromium plated, for 500 watt Type PS40 or 300 Watt Type PS35 lamps. Dimensions: A, 11 1/2"; B, 10 7/8"; C, 3 1/4", D, 1 1/2".

Cat. No. R-500

List Price..... Each \$9.50

Roundels for R-500

List Price..... Each \$6.00



R-500

Type R-500-A

Spun reflector, chromium plated for 500 watt Type PS40 or 300 watt PS35 lamps. Dimensions: A, 11 1/2"; C, 3 1/4"; D, 1 1/2"; E, 11 1/4".

Cat. No. R-500-A

List Price..... Each \$10.00

Roundels for R-500-A

List Price..... Each \$6.00



R-500A

Type R-1015

Spun reflector, chromium plated for 1500 watt, 1000 watt or 750 watt Type PS52 lamps. Dimensions: A, 16"; B, 14 1/8"; C, 3 3/4"; D, 1 1/2".

Cat. No. R-1015

List Price..... Each \$16.00

Roundels for R-1015

List Price..... Each \$15.00



R-1015

Type R-1015-A

Spun reflector, chromium plated for 1500 watt, 1000 watt or 750 watt Type PS52 lamps. Dimensions: A, 16"; C, 3 3/4"; D, 1 1/2"; E, 15 1/2".

Cat. No. R-1015A

List Price..... Each \$17.00

Roundels for R-1015-A

List Price..... Each \$15.00



R-1015A

Medium and Wide Beam Reflectors

Spun of Copper - Chromium Plated
Separate Mounting. Reinforced Mounting



A SIZE FOR EVERY REQUIREMENT

MEDIUM and wide beam line of reflectors, comparatively new to the group manufactured by the Major Equipment Company. They are carefully designed to afford the greatest volume of light over a wider spread than the designated narrow beam reflector.

With one exception they are spun copper and chromium plated. All of the chromium plated reflectors are equipped with the new patented Major Slip Ring, which makes these reflectors a very convenient type to relamp, regardless of location.

Type MR-60



Type MR-60

Spun copper reflector, chromium plated, for 60W or 50W—A21 lamp. Dimensions: A, $3\frac{7}{8}$ "; B, $4\frac{5}{8}$ "; C, $2\frac{3}{8}$ "; D, $\frac{1}{2}$ ".

Cat. No. MR60 List Price, Each \$3.00

Roundels for MR-60 List Price..... Each \$1.00

Type MR-100



Type MR-100

Spun copper reflector, chromium plated for 100W or 75W—A23 lamps. Dimensions: A, $3\frac{7}{8}$ "; B, 6"; C, $2\frac{3}{8}$ "; D, $\frac{1}{2}$ ".

Cat. No. MR-100 List Price..... Each \$3.50

Roundels for MR-100 List Price..... Each \$1.00

Type WR-100



Type WR-100

Spun copper reflector, chromium plated, for 100W or 75W A23 lamps. Dimensions: A, $7\frac{3}{4}$ "; B, $6\frac{3}{4}$ "; C, $2\frac{3}{8}$ "; D, $1\frac{3}{8}$ ".

Cat. No. WR-100 List Price..... Each \$6.50

Roundels for WR-100 List Price..... Each \$3.00

Type WR-100-A



Type WR-100-A

Spun copper reflector, chromium plated, for 100W or 75W A23 lamps. Dimensions: A, $7\frac{3}{4}$ "; C, $2\frac{3}{8}$ "; D, $1\frac{3}{8}$ "; E, $7\frac{1}{4}$ ".

Cat. No. WR-100-A List Price..... Each \$7.00

Roundels for WR-100-A List Price..... Each \$3.00

Spun of Aluminum - Oxidized Finish
Separate Mounting. Reinforced Mounting

Type AR-150



Type AR-150

Spun aluminum reflector, oxidized aluminum, for 150W—PS25 lamps. Dimensions: A, $5\frac{3}{4}$ "; B, $7\frac{5}{8}$ "; C, $2\frac{3}{8}$ "; D, 1".

Cat. No. AR-150 List Price..... Each \$4.25

Roundels for AR-150 List Price..... Each \$2.00

Bayonet Retaining Rings List Price..... Each 50c

Type AR-150-A



Type AR-150-A

Spun aluminum reflector, oxidized aluminum, for 150W—PS25 lamps. Dimensions: A, $5\frac{3}{4}$ "; C, $2\frac{3}{8}$ "; D, 1"; E, $7\frac{1}{2}$ ".

Cat. No. AR-150-A List Price..... Each \$4.50

Roundels for AR-150-A List Price..... Each \$2.00

Bayonet Retaining Rings List Price..... Each 50c

Medium and Wide Beam Reflectors

Spun of Copper—Chromium Plated

Separate Mounting—Reinforced Mounting



Type WR-150

Type WR-150
Spun copper reflector, chromium plated, for 150W—PS25 lamps. Dimensions: A, 7 $\frac{3}{4}$ "; B, 7 $\frac{5}{8}$ "; C, 2 $\frac{3}{8}$ "; D, 1 $\frac{3}{8}$ ".

Cat. No. WR-150
List Price..... Each \$6.50
Roundels for WR-150
List Price..... Each \$3.00

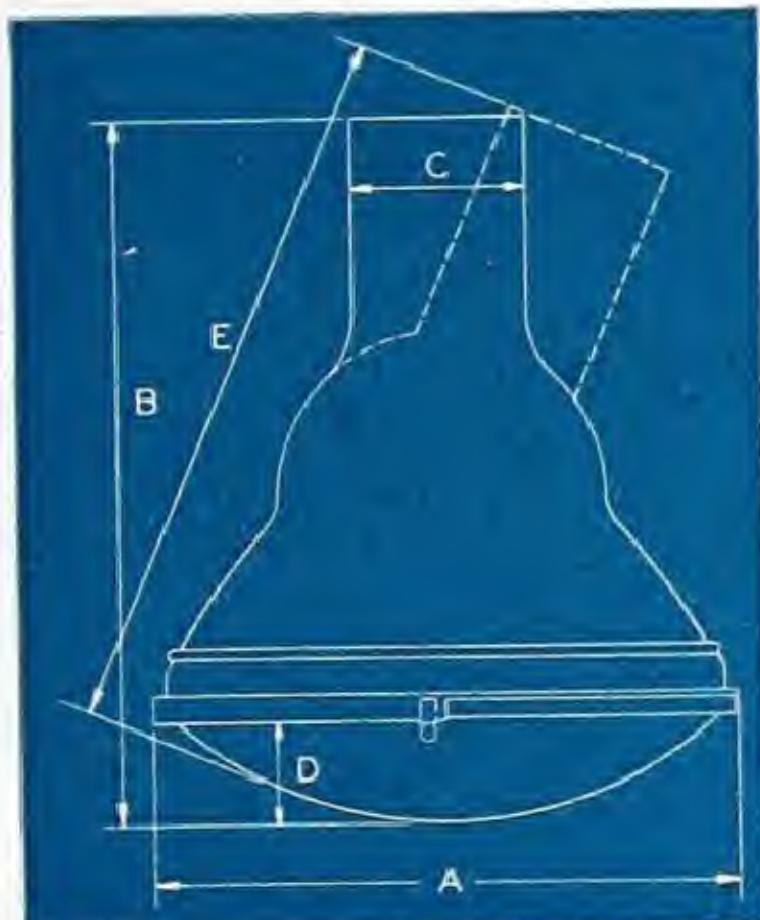
Type WR-150-A

Spun copper reflector, chromium plated, for 150W—PS25 lamp. Dimensions: A, 7 $\frac{3}{4}$ "; C, 2 $\frac{3}{8}$ "; D, 1 $\frac{3}{8}$ "; E, 8".

Cat. No. WR-150-A
List Price..... Each \$7.00
Roundels for WR-150-A
List Price..... Each \$3.00



Type WR-150-A



Type WR-200

Type WR-200

Spun copper reflector, chromium plated, for 200W—PS30 lamp. Dimensions: A, 7 $\frac{3}{4}$ "; B, 8 $\frac{3}{8}$ "; C, 2 $\frac{3}{8}$ "; D, 1 $\frac{3}{8}$ ".

Cat. No. WR-200
List Price..... Each \$6.50
Roundels for WR-200
List Price..... Each \$3.00

Type MR-150

Spun copper reflector, chromium plated for 150W—PS25 lamp. Dimensions: A, 5 $\frac{3}{4}$ "; B, 7 $\frac{1}{2}$ "; C, 2 $\frac{3}{8}$ "; D, 1".

Cat. No. MR-150
List Price..... Each \$4.50
Roundels for MR-150
List Price..... Each \$2.00



Type MR-150



Type WR-200-A

Type WR-200-A

Spun copper reflector, chromium plated, for 200W—PS30 lamps. Dimensions: A, 7 $\frac{3}{4}$ "; C, 2 $\frac{3}{8}$ "; D, 1 $\frac{3}{8}$ "; E, 8 $\frac{1}{8}$ ".

Cat. No. WR-200-A
List Price..... Each \$7.00
Roundels for WR-200-A
List Price..... Each \$3.00



Type WR-200-A



Type WR-500

Type WR-500

Spun copper reflector, chromium plated, for 500W—PS40 or 300W—PS35 lamps. Dimensions: A, 11 $\frac{1}{2}$ "; B, 10"; C, 3 $\frac{1}{4}$ "; D, 1 $\frac{1}{2}$ ".

Cat. No. WR-500
List Price..... Each \$9.50
Roundels for WR-500
List Price..... Each \$6.00

Type WR-500-A

Spun copper reflector, chromium plated, for 500W—PS40 or 300W—PS35 lamps. Dimensions: A, 11 $\frac{1}{2}$ "; C, 3 $\frac{1}{4}$ "; D, 1 $\frac{1}{2}$ "; E, 10 $\frac{1}{2}$ ".

Cat. No. WR-500-A
List Price..... Each \$10.00
Roundels for WR-500-A
List Price..... Each \$6.00



Type WR-500-A

Retaining Rings

New Patented Slip Ring

THIS new patented slip ring can be used for both roundel or gelatine color frames, as illustrated to the right and left of this paragraph. See the description of this ring on page 21. This ring is not listed here, as it is a part of the reflector itself and can not be detached or parts lost.

Set Screw Ring

For roundels that are of such weight and diameter as to require it, heavy set screw ring is to be used. Has two heavy rivets on one side and large set screw on the other.

Cat. No. S12—For Reflector, dia. 11 $\frac{1}{4}$ " List Price, \$2.00

Clip Retaining Ring

Made so that either roundels or a gelatine frame may be used, and so that it can be easily removed with one hand when relamping.

Cat. No. C3—For Reflector, dia. 2 $\frac{3}{4}$ " List Price, Each 50c

Cat. No. C4—For Reflector, dia. 3 $\frac{3}{4}$ " List Price, Each 75c

Cat. No. C6—For Reflector, dia. 5 $\frac{5}{8}$ " List Price, Each \$1.00

Cat. No. C8—For Reflector, dia. 7 $\frac{9}{16}$ " List Price, Each \$2.00

Bayonet Ring

Used for F156 and F2R 156 Footlights only. Not illustrated.

Cat. No. PR6 List Price, 50c



New Patented Slip Ring



Set Screw Ring



Clip Retaining Ring



Box Cover Swivel Mounting



Cord Pendant

Used when edge of reflector is free of contact with other surfaces. For outdoor installation. Made of one-piece Spring brass, nickel plated, split retaining ring. U-shaped and overlapping.

Spring Brass Ring

Cat. No. S3—For Reflector, dia. 2 $\frac{3}{4}$ " List Price, Each 25c

Cat. No. S4—For Reflector, dia. 3 $\frac{3}{4}$ " List Price, Each 50c

Cat. No. S6—For Reflector, dia. 5 $\frac{5}{8}$ " List Price, Each 75c

Cat. No. S8—For Reflector, dia. 7 $\frac{9}{16}$ " List Price, Each \$1.00



New Patented Slip Ring



Spring Brass Ring



Clamp Ring



Screw Base Socket Mounting



Plug Base Socket Mounting



Box Cover and Socket Mounting

MOUNTINGS

Box Cover Swivel Mounting

A special cup housing with inserts for reflector mounting, containing a medium base or mogul socket. A new swivel joint support that permits free adjustment for mounting on to a 4" octagon box cover. Assembly wired complete, not including reflector or roundels.

Cat. No. SBW-SC—Medium Base Socket List Price, Each \$4.00

Cat. No. SBM-SC—Mogul Base Socket List Price, Each \$6.00

Screw Base Socket Mounting

This unit fits any medium base socket. Combination copper disc with inserts and screw plug base. Not including reflector or roundels.

Cat. No. SP—
List Price, Each \$2.00

Plug Base Socket Mounting

Hubbell outlet reflector assembly of a copper disc with inserts and male plug. Disc has inserts for mounting any Major reflector. Not including reflector or roundels.

Cat. No. HP—
List Price, Each \$2.00

Cord Pendant

This is a combination copper cup housing with a medium base or mogul socket, to be used with Major reflectors. It is not wired, as the cord from which it hangs should pass into the socket cup. Does not include reflector or roundel.

Cat. No. DS54—Medium Base Socket List Price, Each \$2.00

Cat. No. DS55—Mogul Base Socket List Price, Each \$4.00

Box Cover and Socket Mounting

To enable easy mounting of Major Reflectors a specially designed cover with standard 54-B socket attached is available. This fits a 4" octagon standard box and has inserts for reflector attaching. Not including reflector or roundels.

Cat. No. S.B.C.—
List Price, Each 60c

Cove Lighting

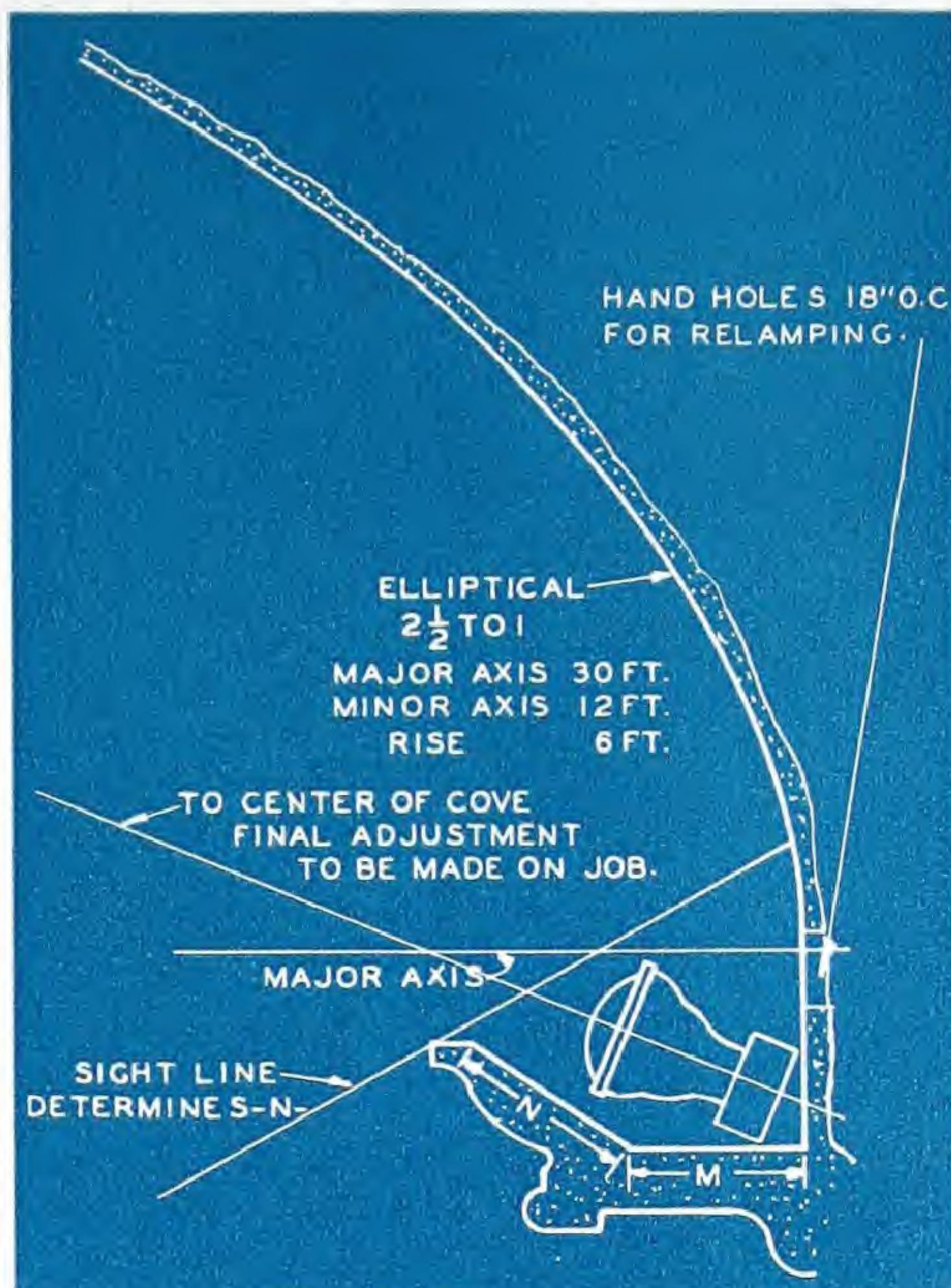
IT IS in Cove Lighting that "painting with light" reaches its most beautiful interpretation. In properly designed and equipped installations the light from seemingly mystic source spreads like a blush of dawn or with the uniformity of a summer sky in delicately tinted shades or vividly conceived colors. Here the electrical engineer becomes the artist with a drafting board for a palette and his slide rule for a mahlstick. Like all artists who strive for perfection his work must be carefully performed, with knowledge and experience at hand to guide the results.

We present to you here a few suggestions in contour of the dome and the shape of the cove. Much depends upon these. Further co-operation is always waiting your call in working out problems for you.

With Major Chromium Plated Reflectors the projection of the light has increased so tremendously that there is scarcely a perceptible difference in the field between the center and the edge. We offer these remarkable units to our engineering friends to aid them in creating the most beautiful lighting possible to conceive.

A tremendous contribution to the practicability of cove lighting is the New Major Patented Slip Ring. With it the reflector can be relamped through a hand hole as only one hand is required to open the ring, remove roundel, and replace. Read the description of this ring on page 21.

The use of Major Chromium Plated Individual Reflector Cove Trough with Diffusing Roundels insures the best possible distribution because the reflectors project a beam towards the center of the dome, while the diffusing roundels spread the secondary beam and smoothly illuminate the dome close to the trough. Note particularly the new swivel mounting units and flexible link trough for curved conditions, shown on pages 32 and 33.



A good cove lighting job depends as much on the contour of the dome and surface of the plaster as it does on the correct lighting equipment. In general it may be said that whatever the shape of the cove it is well to curve up away from the lighting trough rapidly for at least three feet and then gradually curve to the center. Plaster should be rough dull finish—never glazed.

In the following table of sizes we have included only the narrow beam reflectors to 200W. The use of the larger reflectors usually requires the study of the plans and specifications, and we suggest that the matter be taken up with our engineers. Also the use of the medium and wide angle reflectors requires special consideration.

COVE SIZES

Diagram to Left

| | |
|------------|------------------|
| Type C-10 | Cove—M 8"—L 5" |
| Type C-25 | Cove—M 8"—L 6" |
| Type C-40 | Cove—M 10"—L 8" |
| Type C-50 | Cove—M 10"—L 8" |
| Type C-100 | Cove—M 14"—L 8" |
| Type C-150 | Cove—M 15"—L 8" |
| Type C-200 | Cove—M 15"—L 10" |

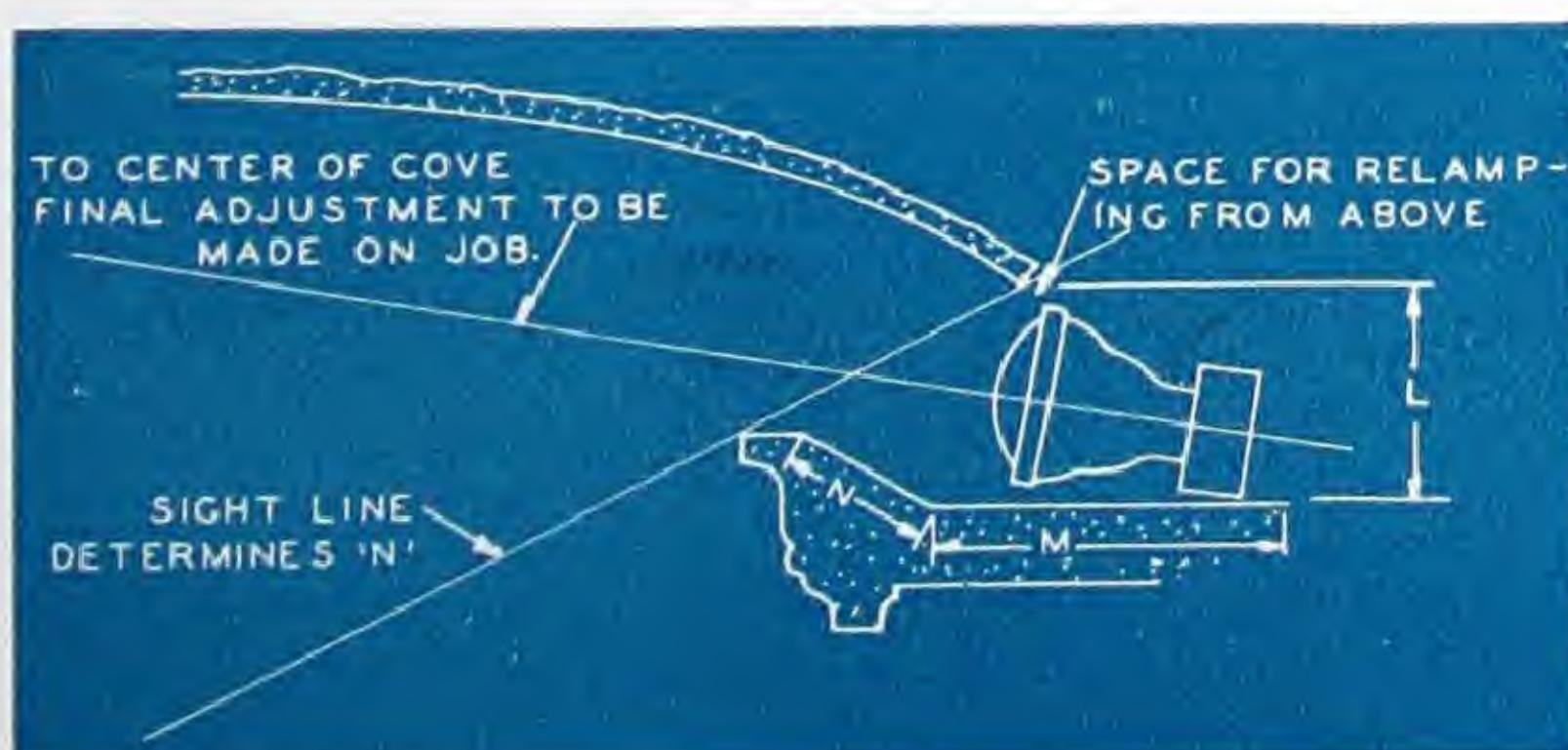
For Minimum Dimensions Deduct 1" from Above

Diagram Above

| | |
|------------|------------|
| Type C-10 | Cove—M 8" |
| Type C-25 | Cove—M 8" |
| Type C-40 | Cove—M 8" |
| Type C-50 | Cove—M 10" |
| Type C-100 | Cove—M 12" |
| Type C-150 | Cove—M 12" |
| Type C-200 | Cove—M 14" |

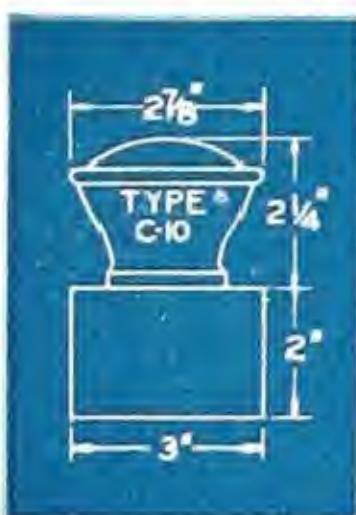
For Minimum Dimensions Deduct 1" from Above

Colors usually must repeat at least every 24-in. in order to insure perfect distribution.



Cove Reflector Troughs—Narrow Beam

ALL Major Cove Reflectors are now equipped with the new patented slip ring, that eliminates all the difficulties of relamping. Major Cove Lighting troughs give maximum light with minimum size of equipment. They are adaptable for white flooding as well as "painting with color," and can be made to specification in any



Type C-10—3" Centers—Minimum

10W—S-11 Intermediate Base Lamps

Wiring box with sockets, properly wired for colors and circuits (per specifications), including spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

List Price, Per Foot \$10.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$0.50

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 10 lbs. per foot.

Type C-40—6" Centers—Min.

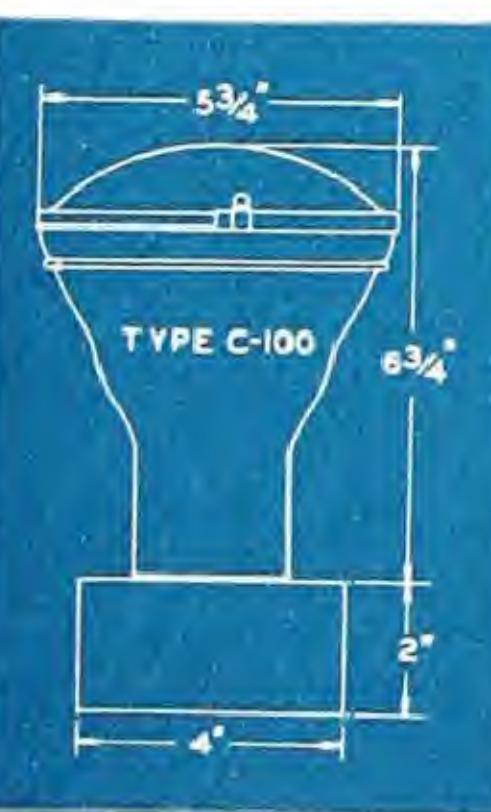
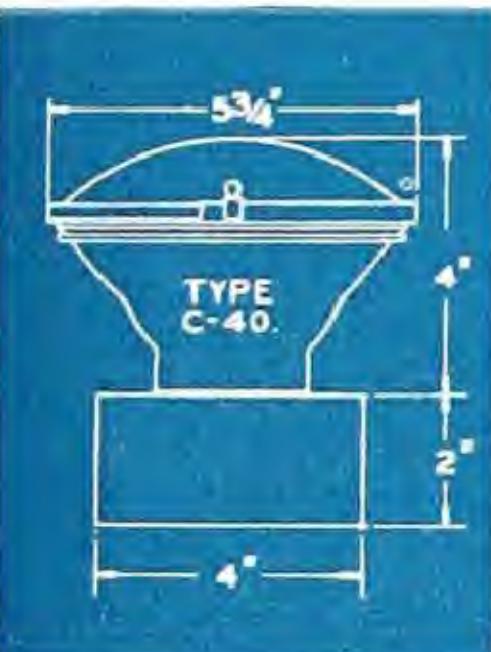
40W—A-19 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$12.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. **List Price, Each \$2.00**

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 12 lbs. per foot.



Type C-100—6" Centers—Min.

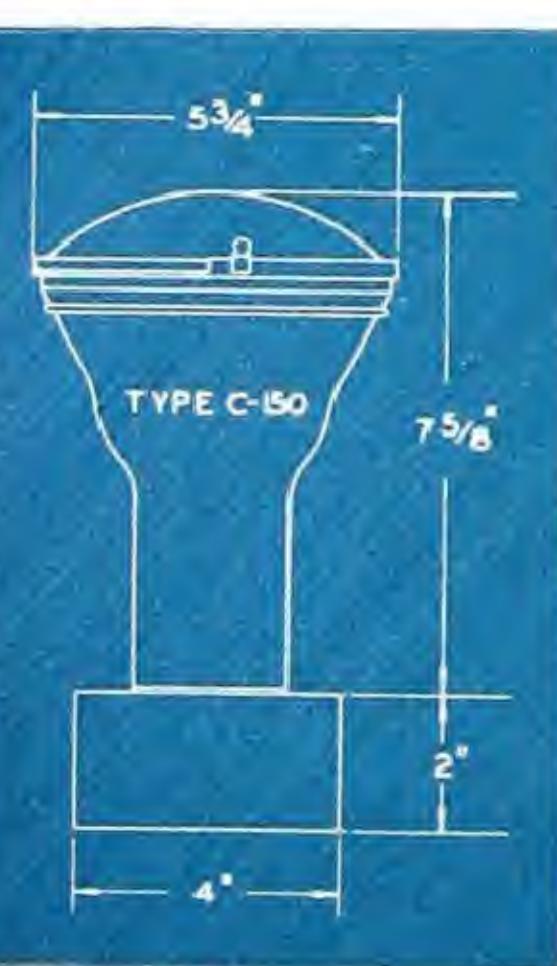
100W or 75W—A-23 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$14.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. **List Price, Each \$2.00**

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 14 lbs. per foot.



Type C-150—6" Centers—Min.

150W—PS-25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$15.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$2.00

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 14 lbs. per foot.

desired curve or length. The Major Flexible Link Trough meets every condition of contour. Swivel mounting has a wide range of uses. As each cove lighting job is an individual problem, we suggest putting your cove lighting problems up to our engineers, who will gladly suggest a layout.

Type C-25—4" Centers—Minimum

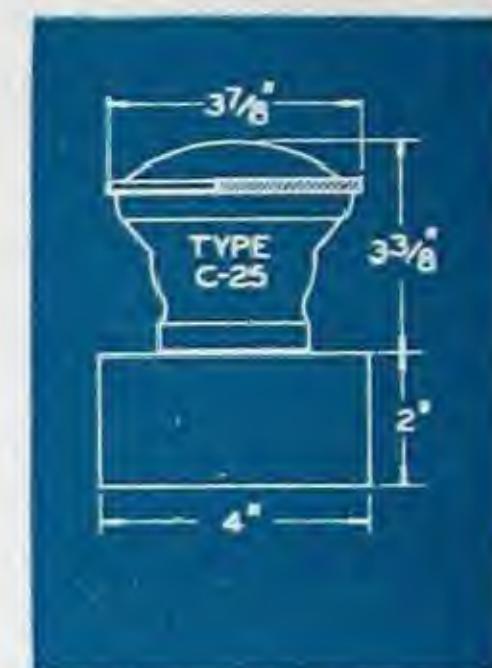
25W—A-19 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$12.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. **List Price, Each \$1.00**

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 12 lbs. per foot.



Type C-60—6" Centers—Min.

60W or 50W—A-21 Lamps

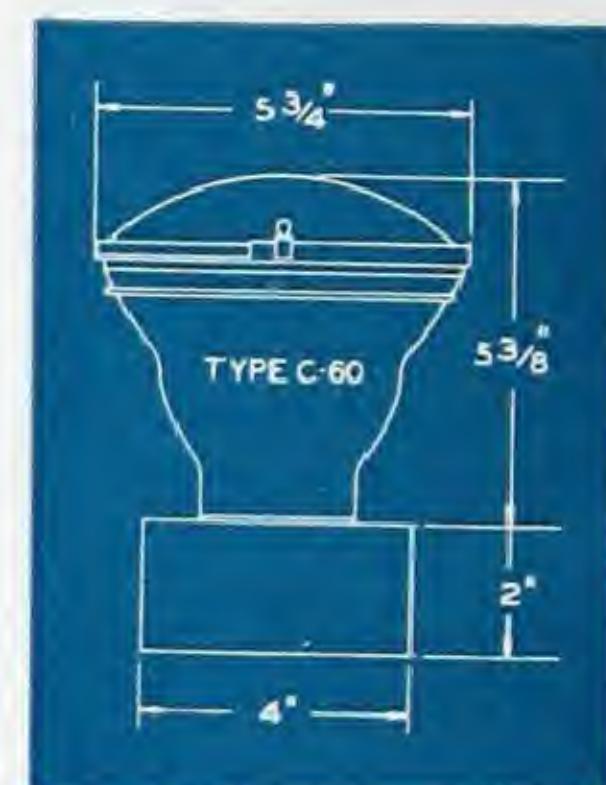
Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$13.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$2.00

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 12 lbs. per foot.



Type C-100-A—6" Centers—Min.

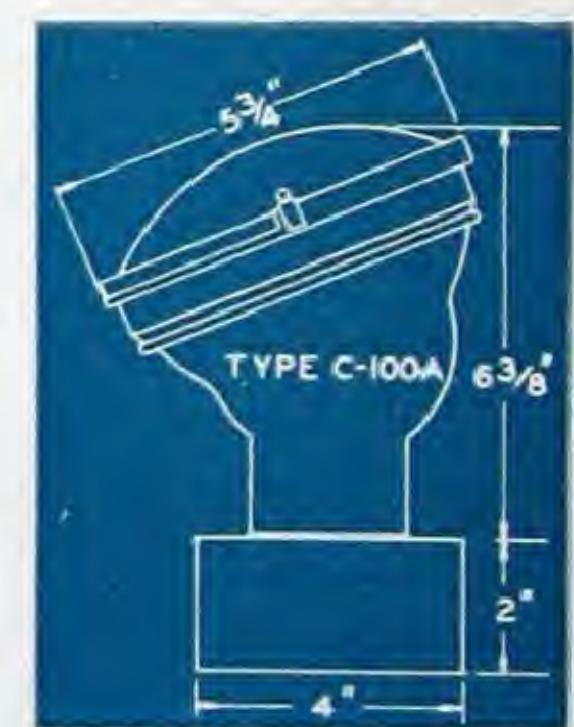
100W or 75W—A-23 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$15.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. **List Price, Each \$2.00**

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 14 lbs. per foot.



Type C-150-A—6" Centers—Min.

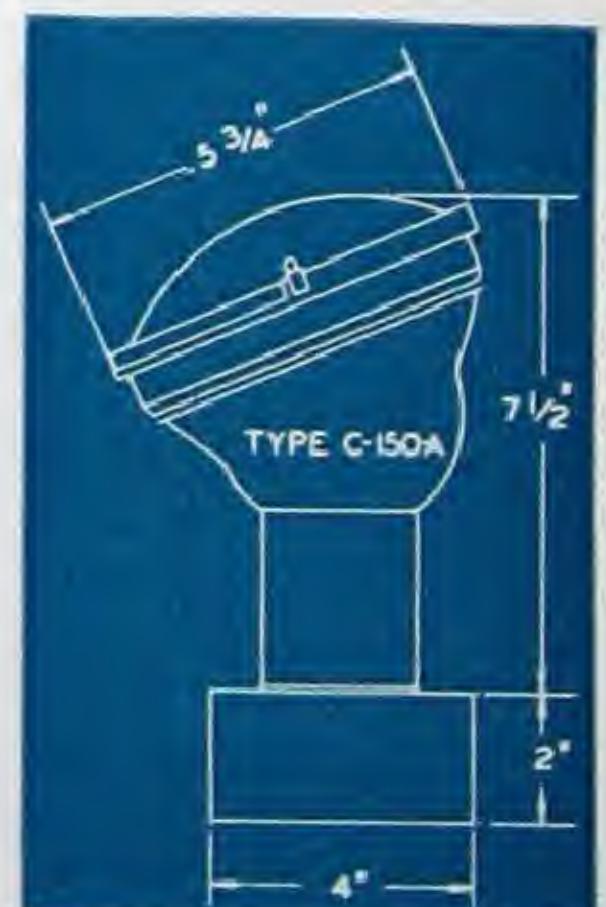
150W—PS-25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat-resisting diffusing roundels and slip rings.

List Price, Per Foot \$16.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. **List Price, Each \$2.00**

For curved construction, add \$2.00 per foot to list price.
Shipping weight, 14 lbs. per foot.



Cove Reflector Troughs—Narrow Beam

Type C-200 8" Centers—Minimum 200W—PS30 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

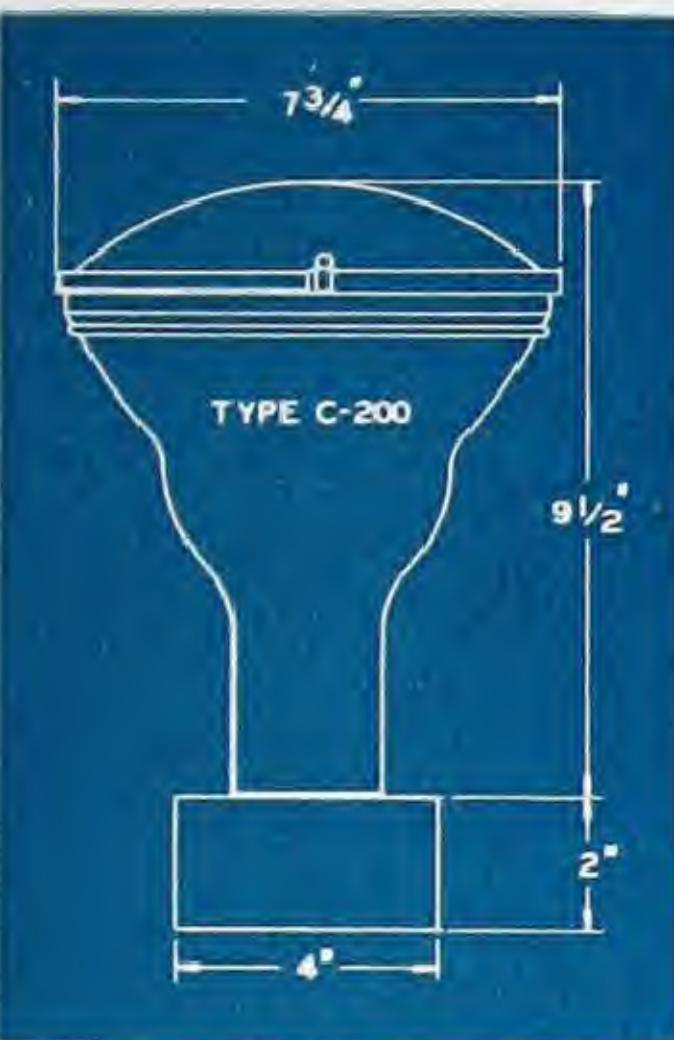
List Price, Per Foot \$16.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

For Curved Construction, add \$2.00 per foot to list price.

Shipping weight, 16 lbs. per foot.



Type C-200-A 8" Centers—Minimum 200W—PS30 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

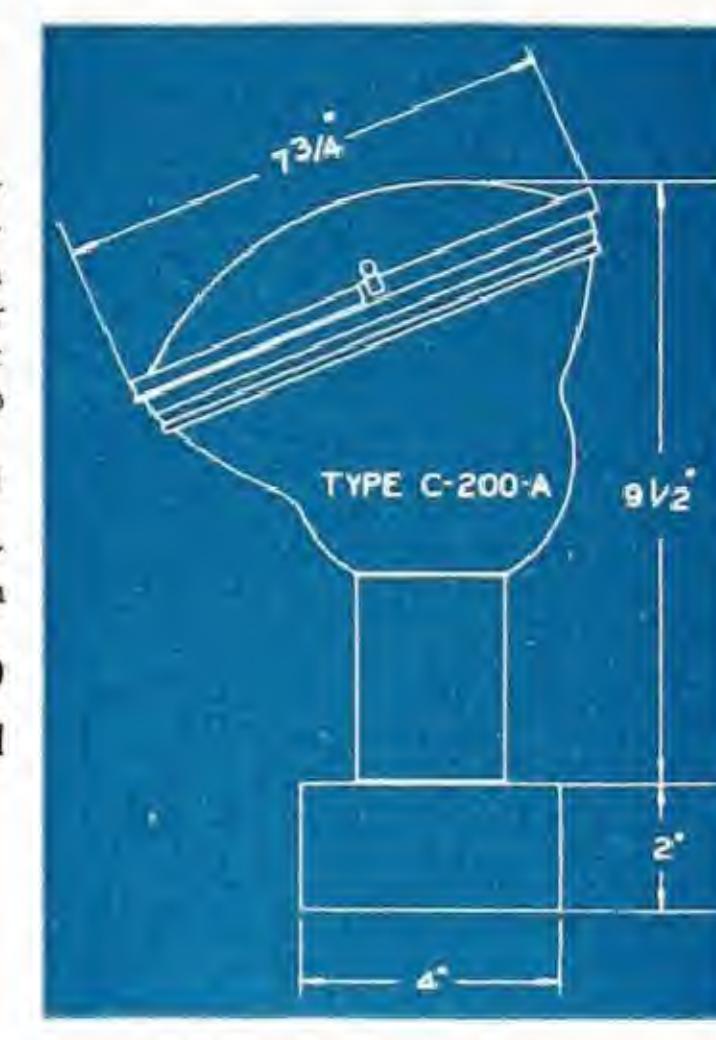
List Price, Per Foot \$17.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 16 lbs. per foot.



Type C-500—12" Centers—Minimum 500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

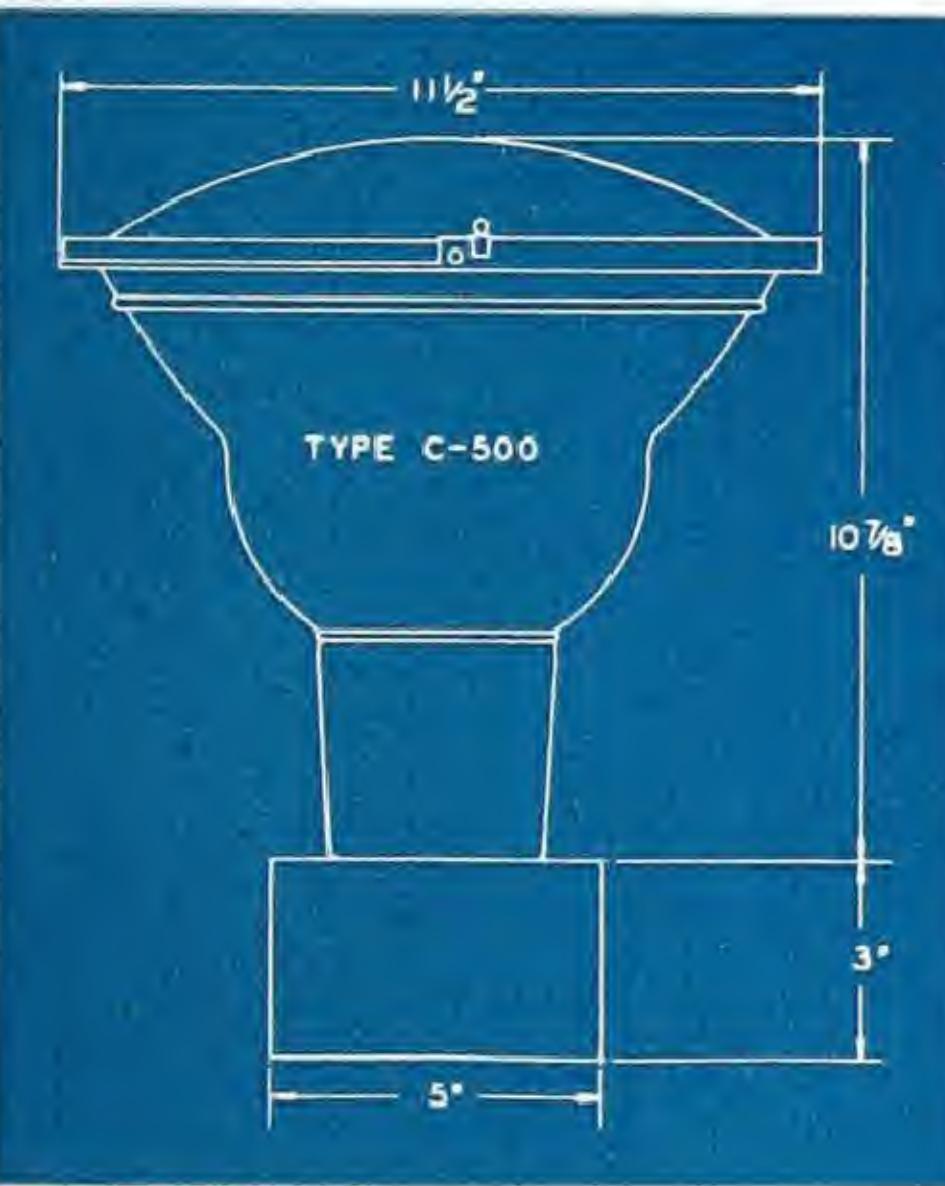
List Price, Per Foot \$18.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$6.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 18 lbs. per foot.



Type C-500A—12" Centers Minimum 500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.

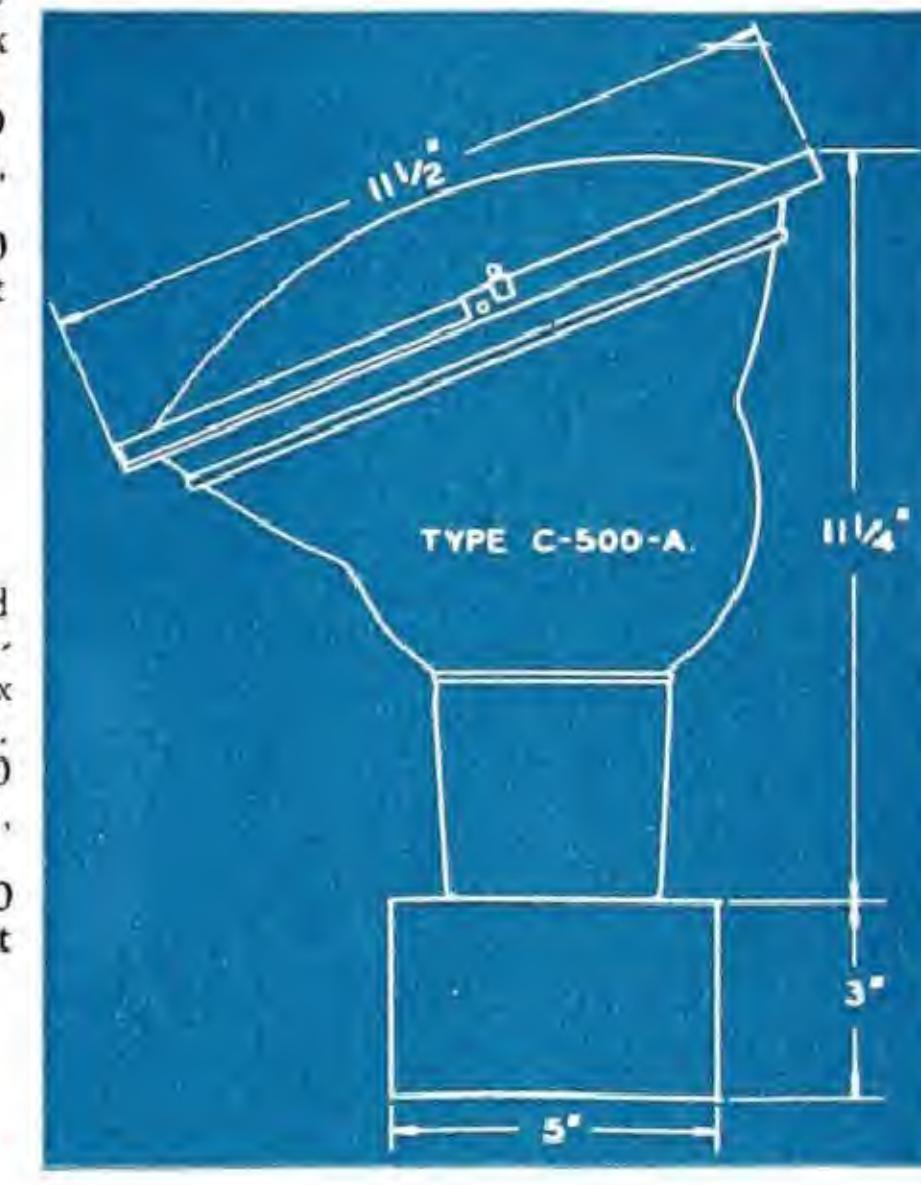
List Price, Per Foot \$19.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Per Foot \$6.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 18 lbs. per foot.



Type C-1015—18" Centers—Minimum 1500W—1000W or 750W PS52 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specifications), including individual spun chromium plated reflectors with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

List Price, Per Foot \$20.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

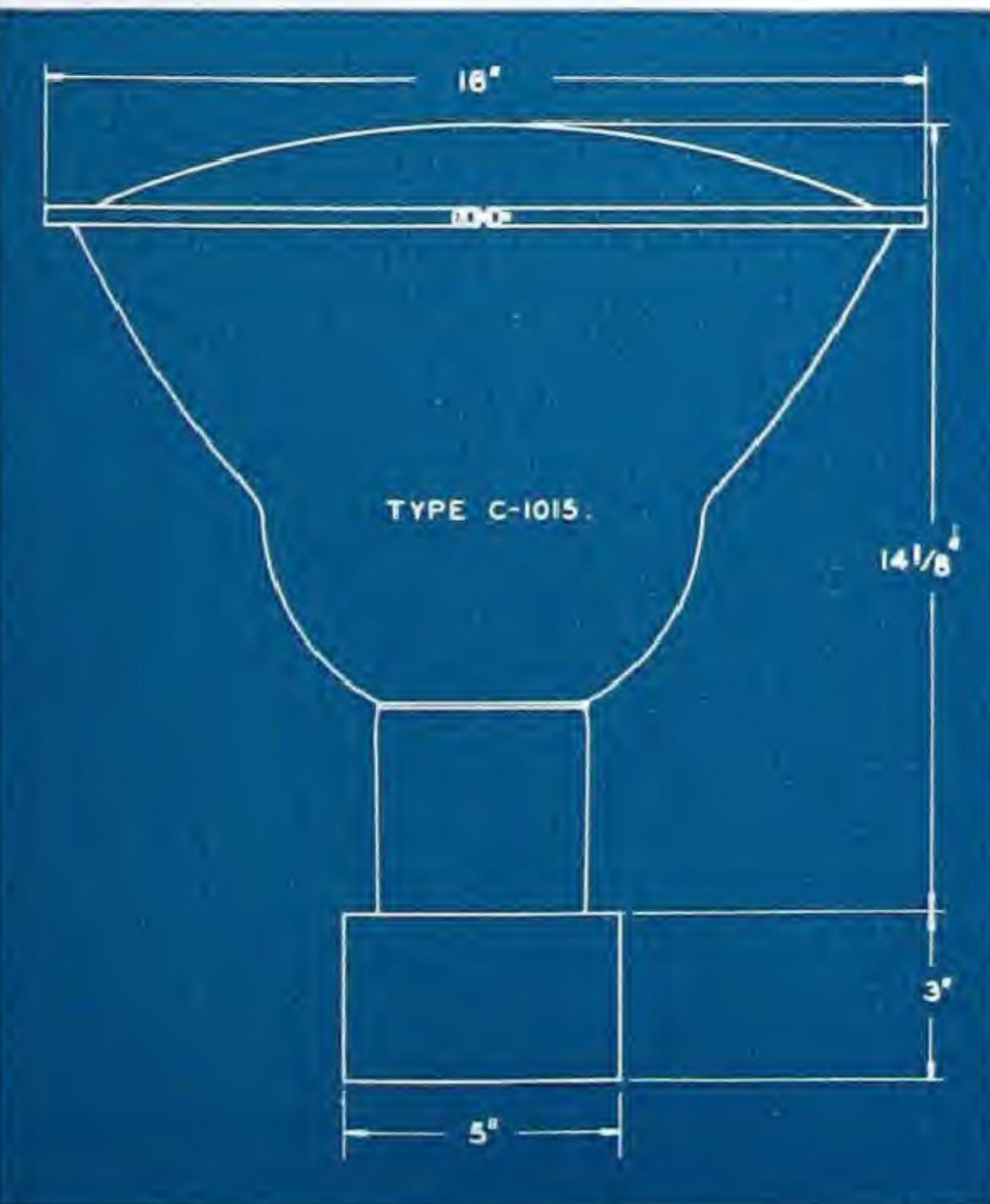
List Price, Each \$15.00

Extra retaining ring for roundel.

List Price, Each \$2.00

For Curved Construction, add \$2.00 per foot to list price.

Shipping weight, 20 lbs. per foot.



Type C-1015A—18" Centers—Min. 1500W—1000W or 750W—PS52 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specifications), including individual spun chromium plated reflectors, with clear or natural colored roundels and slip rings.

List Price, Per Foot \$21.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

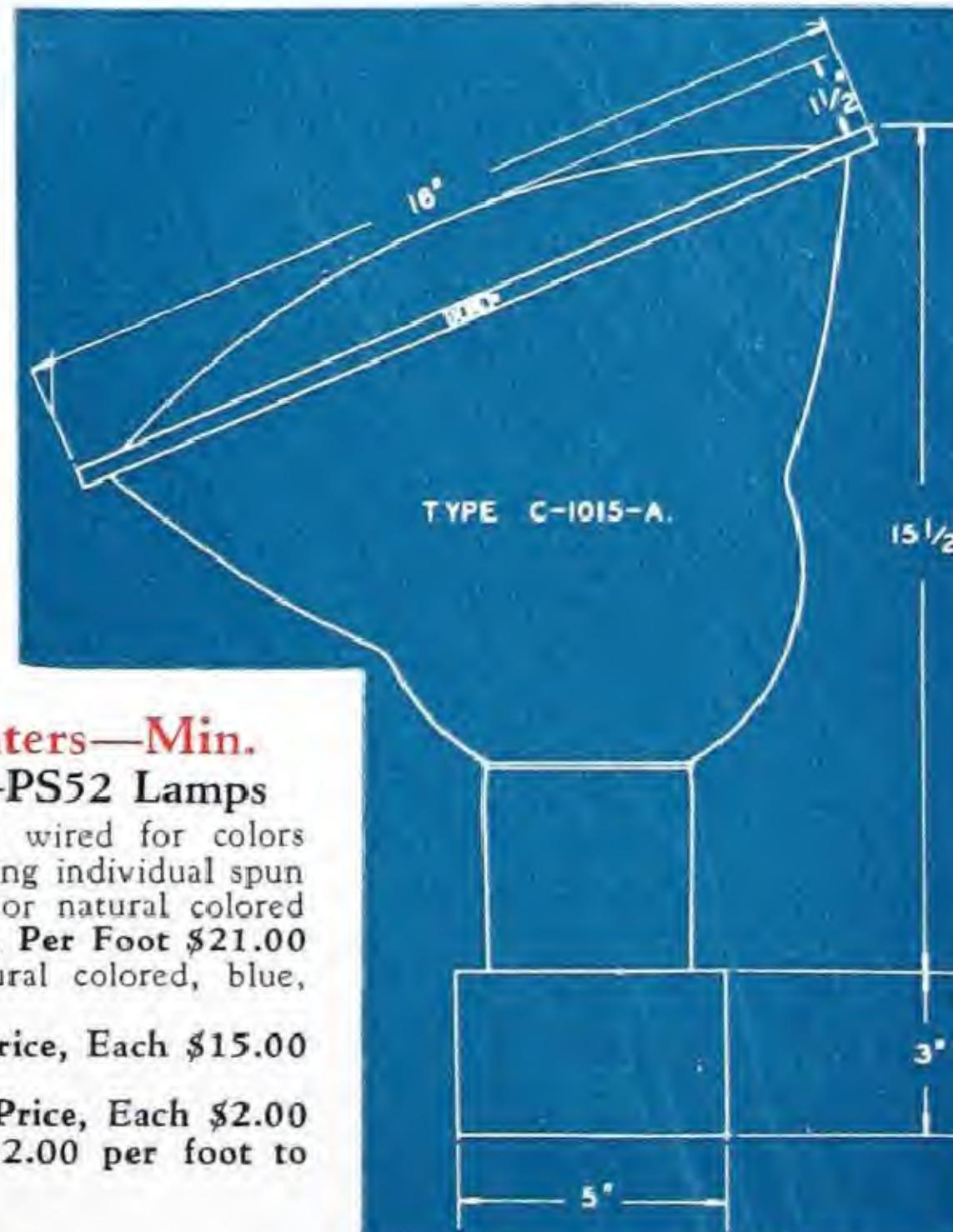
List Price, Each \$15.00

Extra retaining ring for roundel.

List Price, Each \$2.00

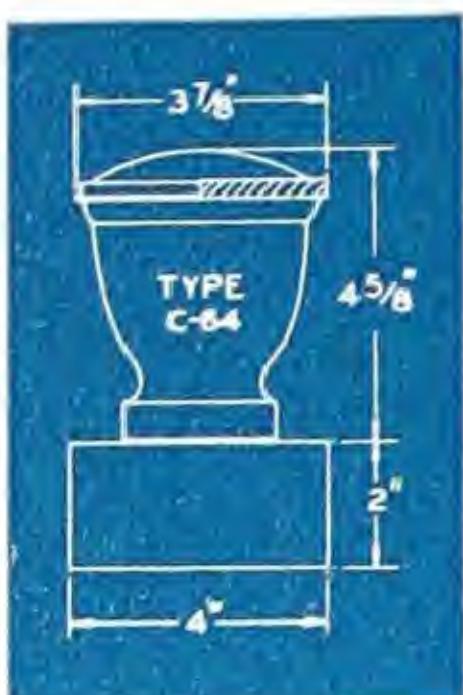
For Curved Construction, add \$2.00 per foot to list price.

Shipping weight, 20 lbs. per foot.



Cove Reflector Troughs

Medium and Wide Beam



Type CM-60—4" Centers—Min. 60W or 50W—A-21 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

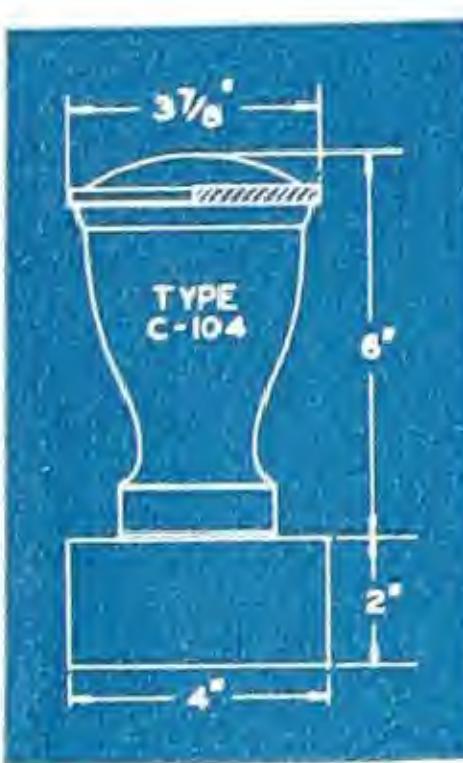
List Price, Per Foot \$14.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$1.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CM-100—4" Centers—Min. 100W or 75W—A-23 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

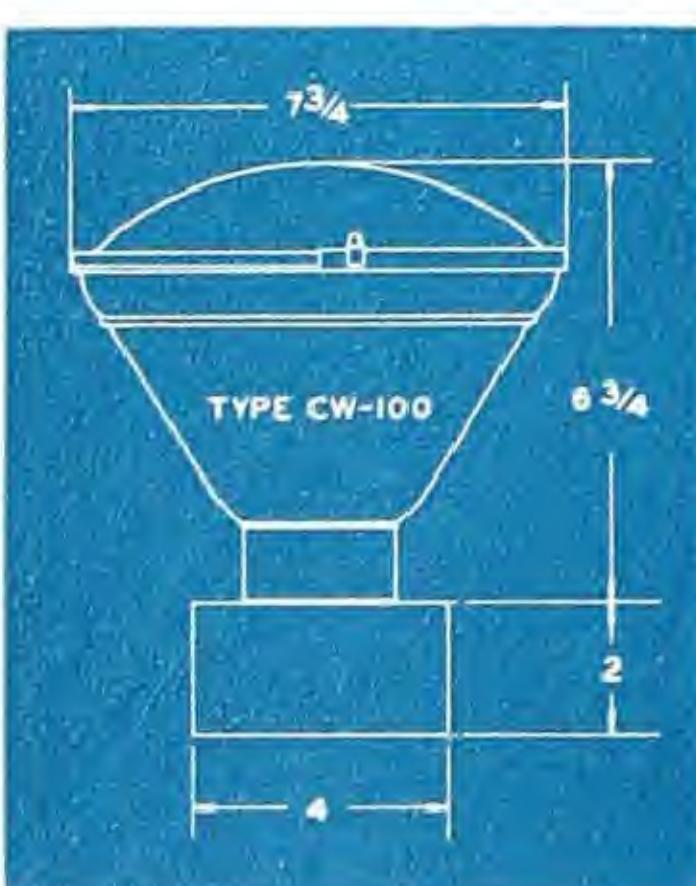
List Price, Per Foot \$15.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$1.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CW-100— 8" Centers—Minimum

100W or 75W—A-23 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

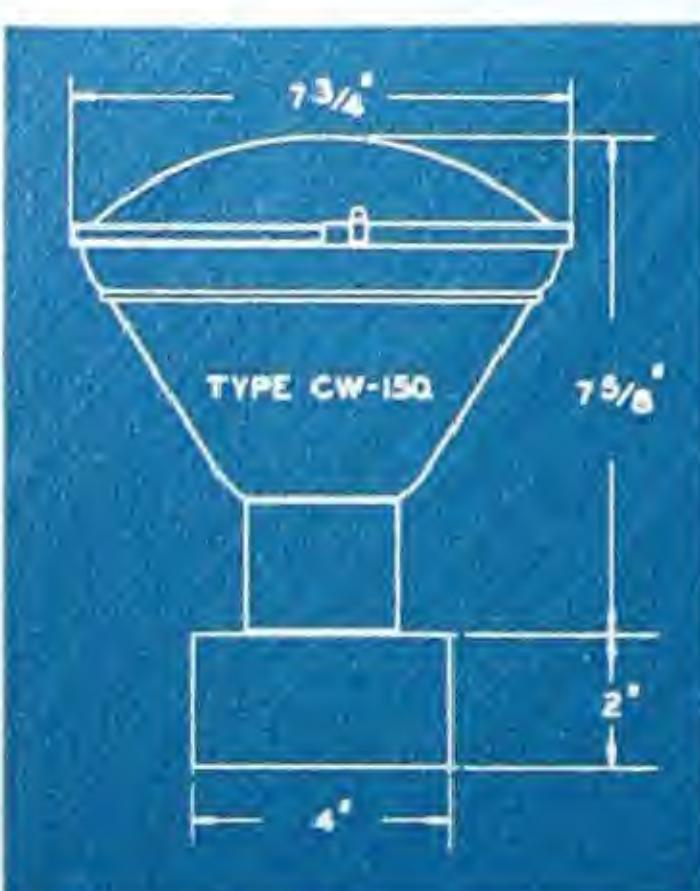
List Price, Per Foot \$16.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CW-150— 8" Centers—Minimum

150W—PS25 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

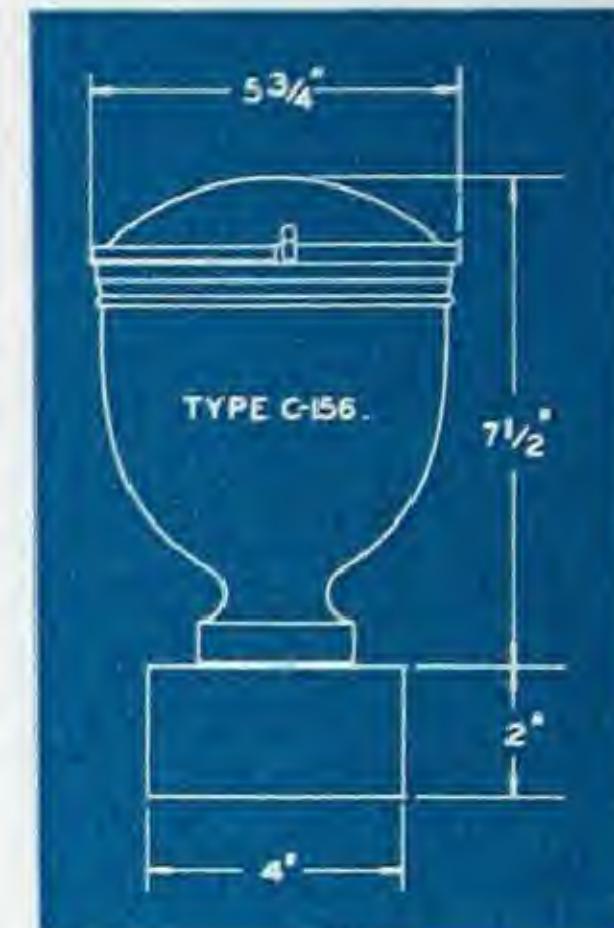
List Price, Per Foot \$16.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



THIS is the first catalog appearance of the Major medium and wide angle reflectors and cove troughing, although they have been used for nearly a year. In each installation they have proven of great efficiency and will enjoy wide popularity. In all sizes will you find the new Major Patented Slip Ring for holding the roundels—one hand operation through a small hand hole—a great help in relamping.

Type CM-150 6" Centers—Minimum

150W—PS25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

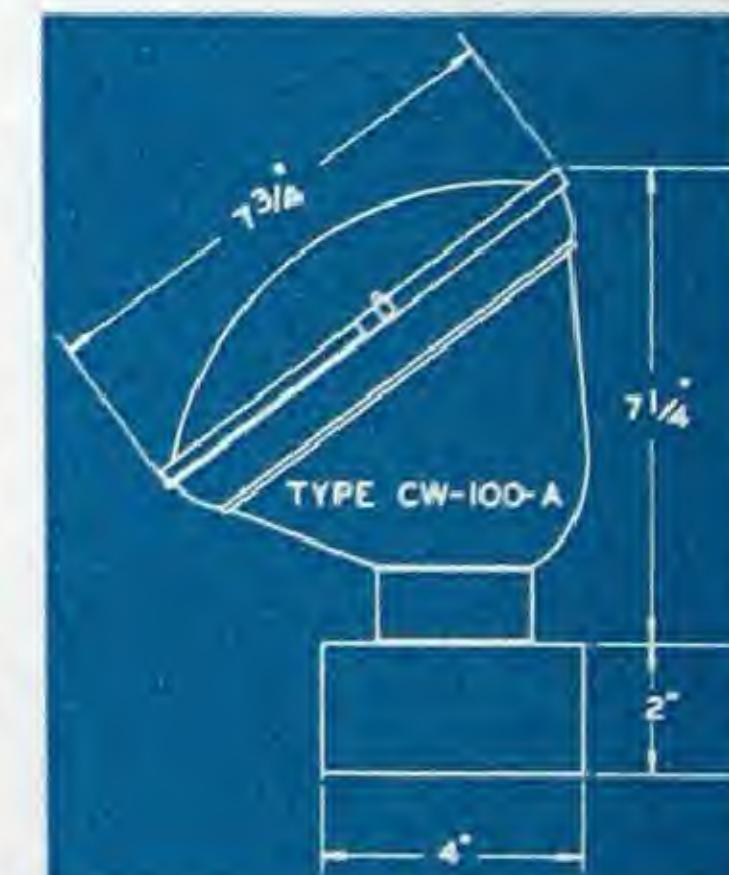
List Price, Per Foot \$15.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price Each, \$2.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CW-100-A— 8" Centers—Minimum

100W or 75W—A-23 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

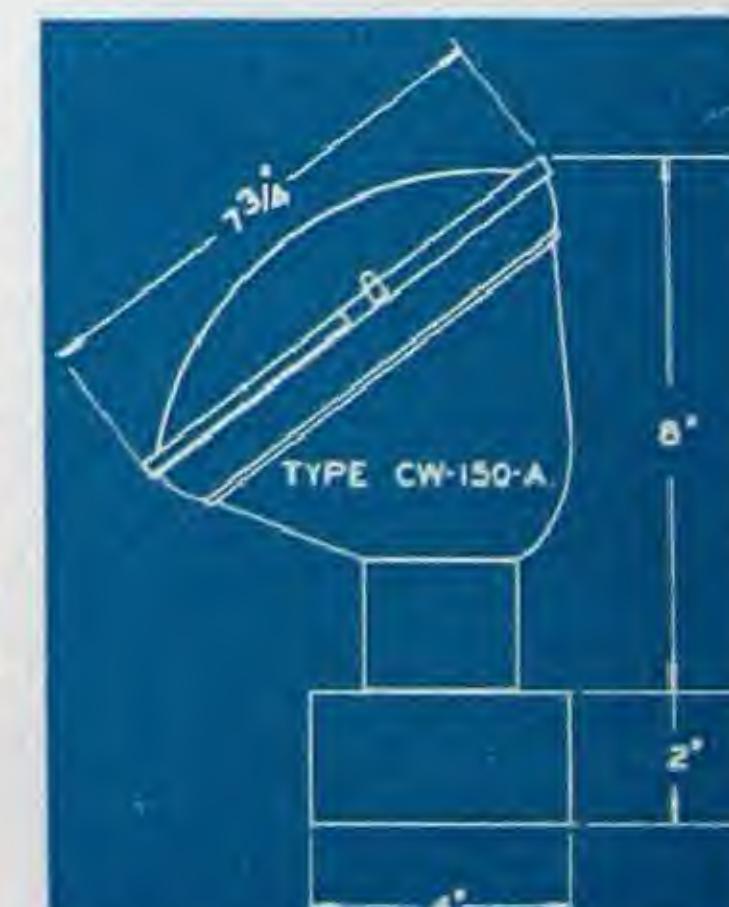
List Price, Per Foot \$17.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CW-150-A— 8" Centers—Minimum

150W—PS25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

List Price, Per Foot \$17.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$3.00

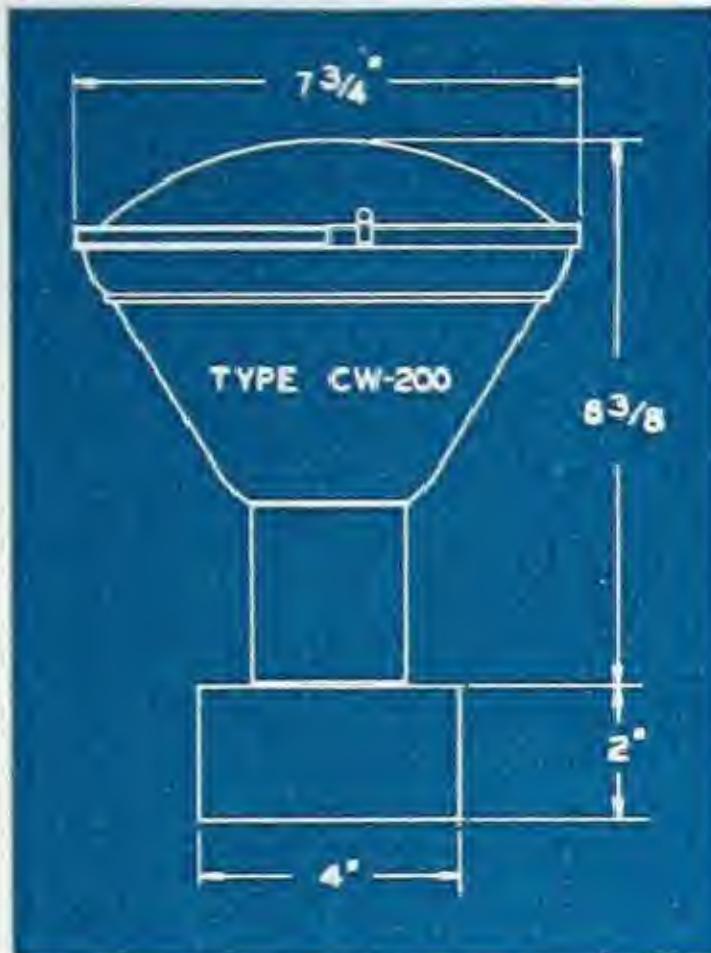
For curved construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.

Roundels for these reflectors may be had in clear and a variety of colors. Full details will be found on page 86.

Cove Reflector Troughs

Medium and Wide Beam



Type CW-200—
8" Centers—Minimum

200W—PS30 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors with clear or natural colored convex shaped heat resisting diffusing roundels, and slip rings. List Price Per Foot, \$16.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. List Price, Each \$3.00

For Curved Construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.

Type CW-200A—
8" Centers—Minimum

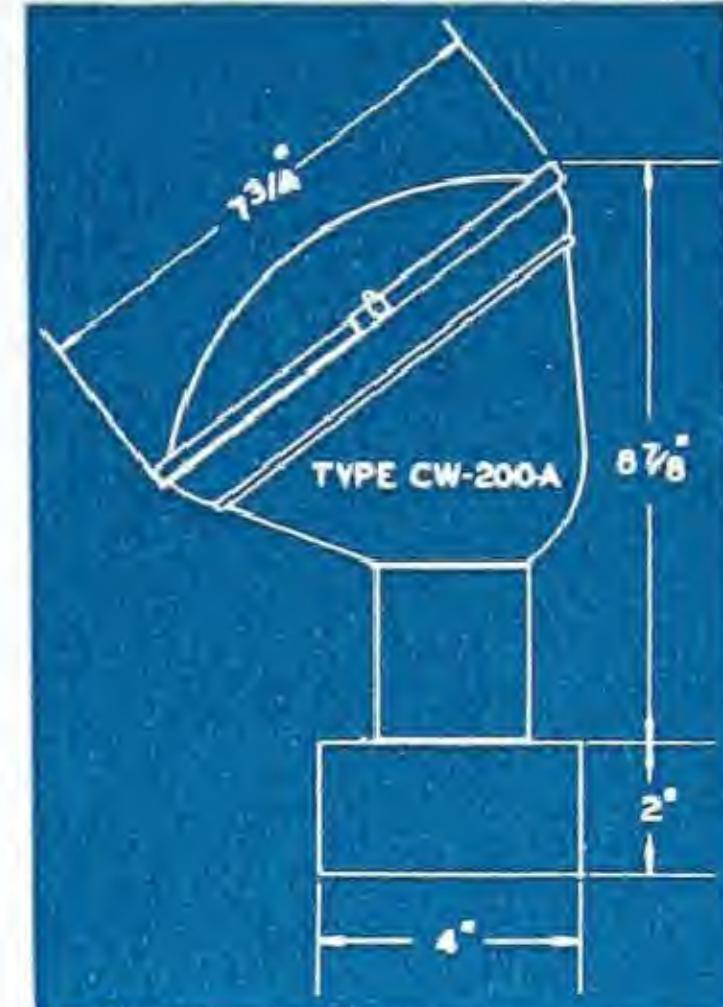
200W—PS30 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors with clear or natural colored convex shaped heat resisting diffusing roundels, and slip rings. List Price, Per Foot \$17.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary. List Price, Each \$3.00

For Curved Construction, add \$2.00 per foot to list price.

Shipping weight, 14 lbs. per foot.



Type CW-500—
12" Centers—Minimum

500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets, properly wired for colors and circuits (per specification), including clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

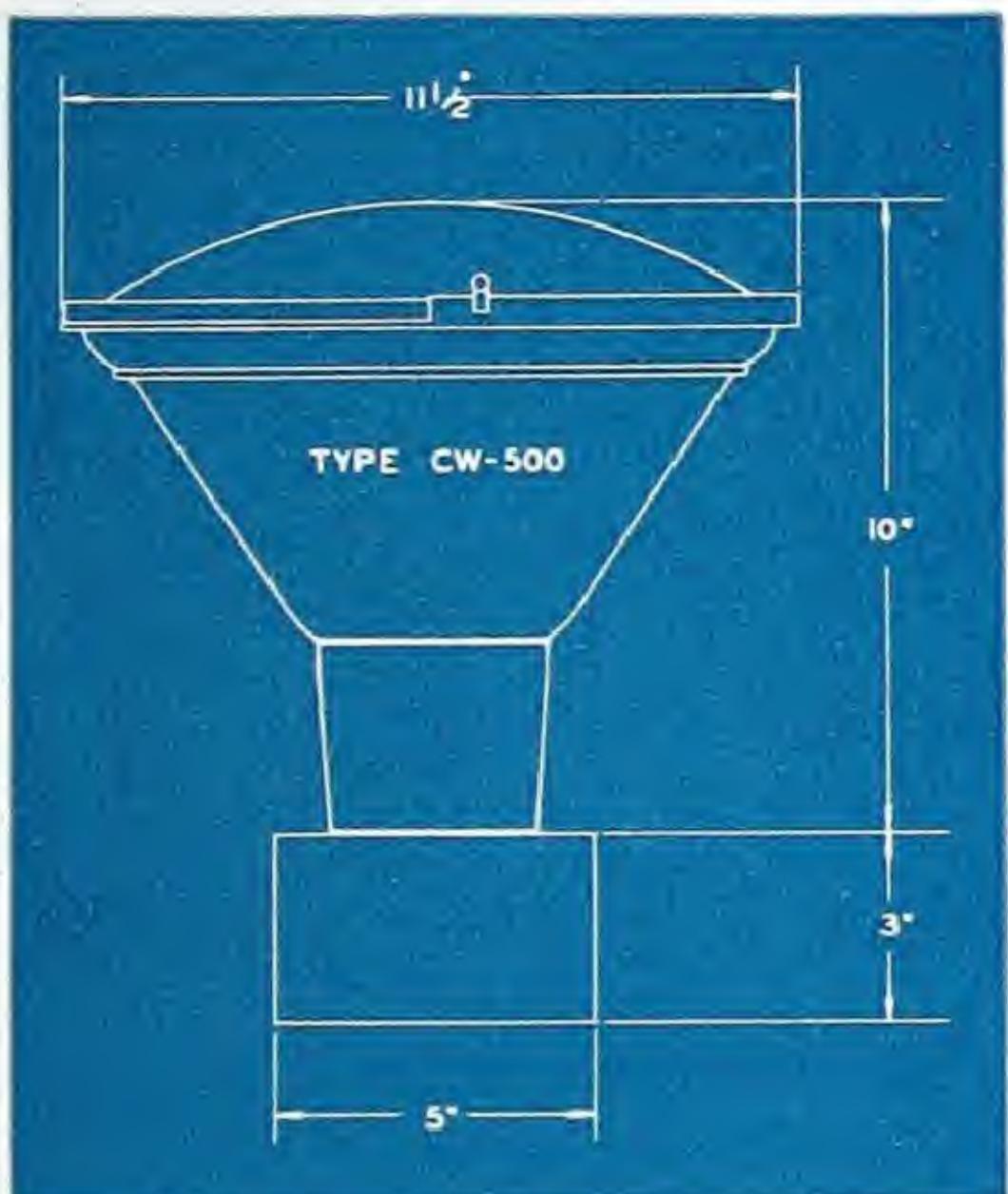
List Price, Per Foot \$18.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.

List Price, Each \$6.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 18 lbs. per foot.



Type CW-500A—
12" Centers—Minimum

500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and slip rings.

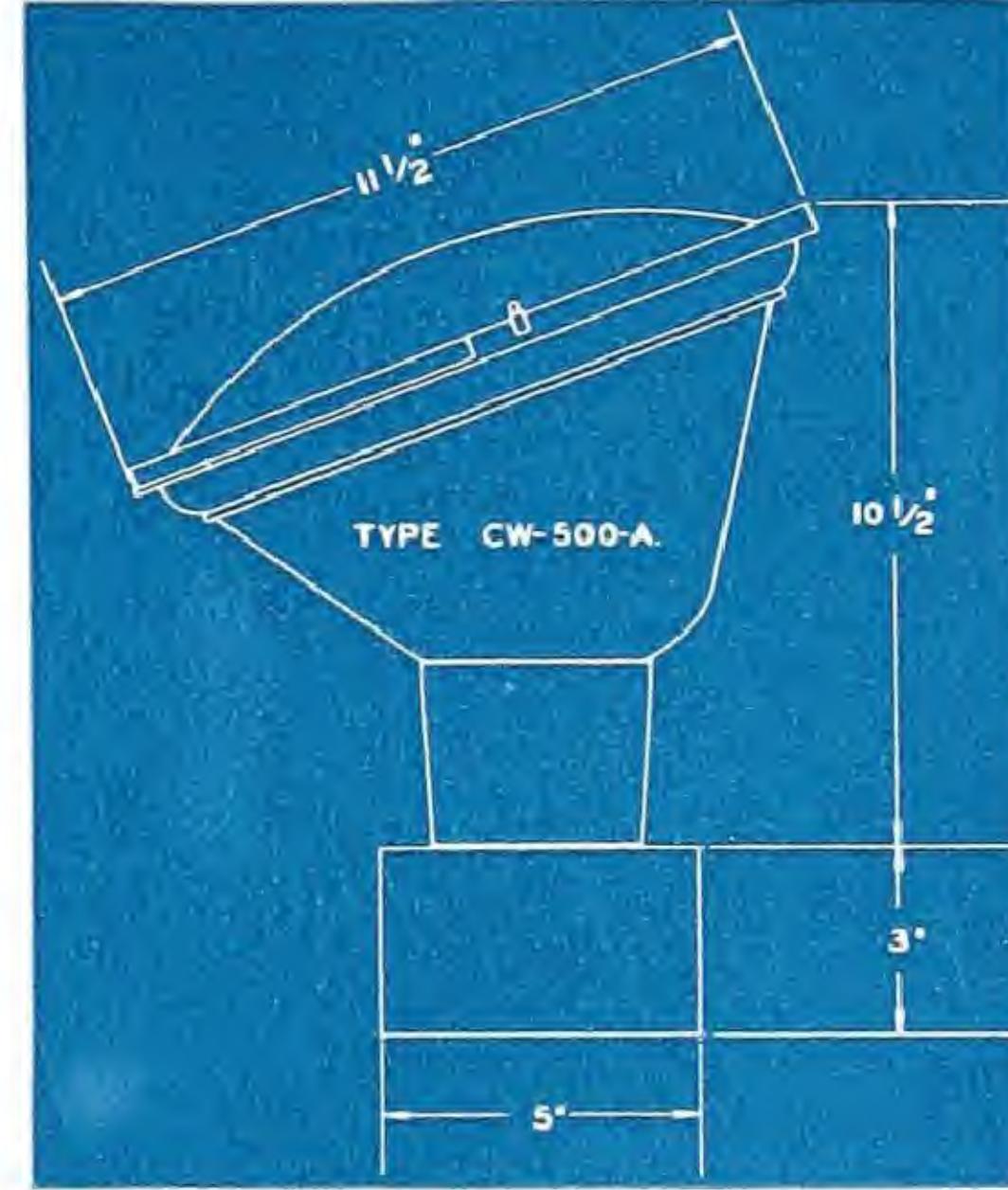
List Price, Per Foot \$19.00

Extra glass roundels or natural colored, blue, red, amber, green and canary.

List Price, Each \$6.00

For curved construction, add \$2.00 per foot to list price.

Shipping weight, 18 lbs. per foot.



COVE STRIPS WITHOUT REFLECTORS

Type C—3" Centers—Minimum

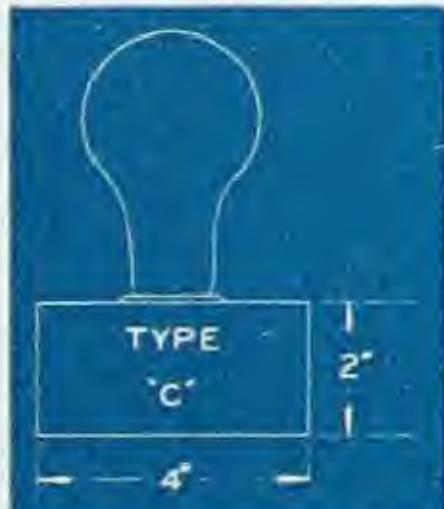
Any Medium Base Lamps

Wiring box, with sockets properly wired for colors and circuits (per specification) no lamps included.

List Price, Per Foot \$3.00

For curved construction, per foot, add \$2.00.

Shipping weight, 7 lbs. per foot.



Type CC—3" Centers—Minimum

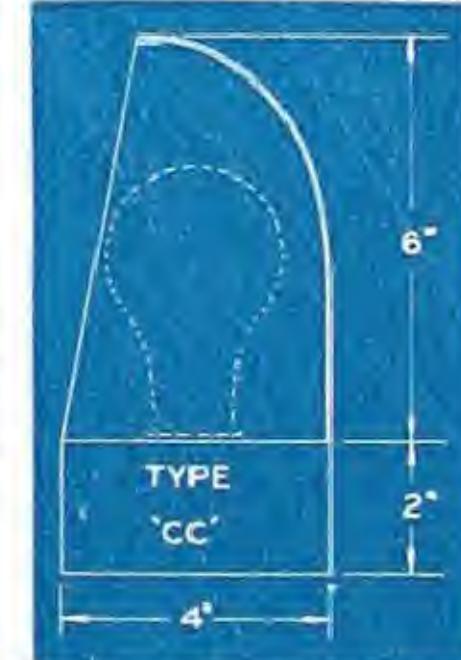
100W, 75W, 60W, 50W, 40W or 25W Lamps

Wiring box with curved reflector back with sockets properly wired for colors and circuits (per specification), no lamps included.

List Price, Per Foot \$6.00

For curved construction, per foot, add \$3.00.

Shipping weight, 8 lbs. per foot.



Type CAA—3" Centers—Minimum

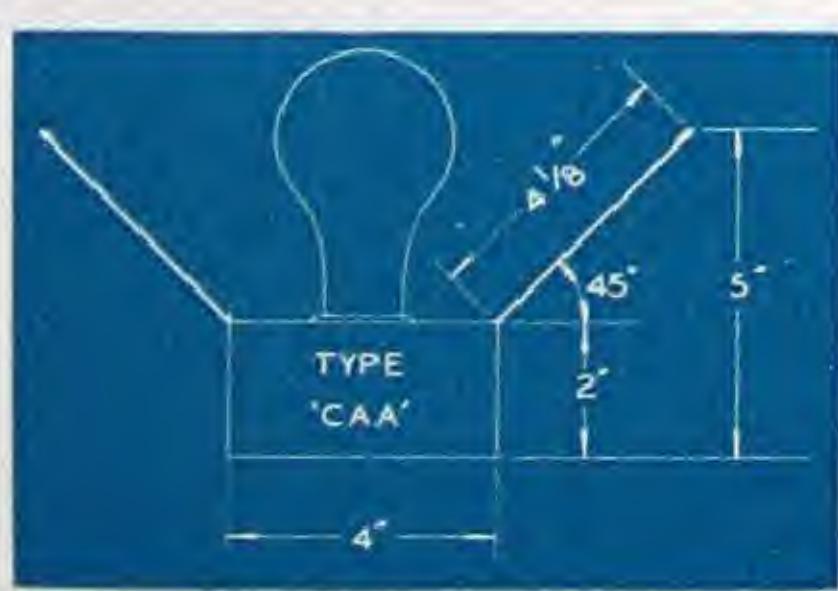
Any Medium Base Lamps

Wiring box, with two straight reflectors, with sockets properly wired for colors and circuits (per specification), no lamps included.

List Price, Per Foot \$6.00

For curved construction, per foot, add \$3.00.

Shipping weight, 10 lbs. per foot.



Sockets on 3" or 4" centers per prices on above four types. For wider than standard spacing apply for prices. No lamps included in prices on this page.

Type CA—3" Centers—Minimum

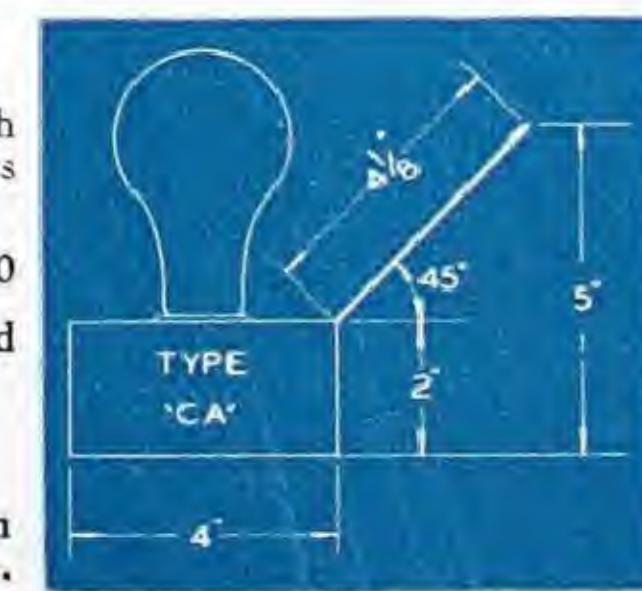
Any Medium Base Lamps

Wiring box with straight reflector back with sockets properly wired for colors and circuits (per specification), no lamps included.

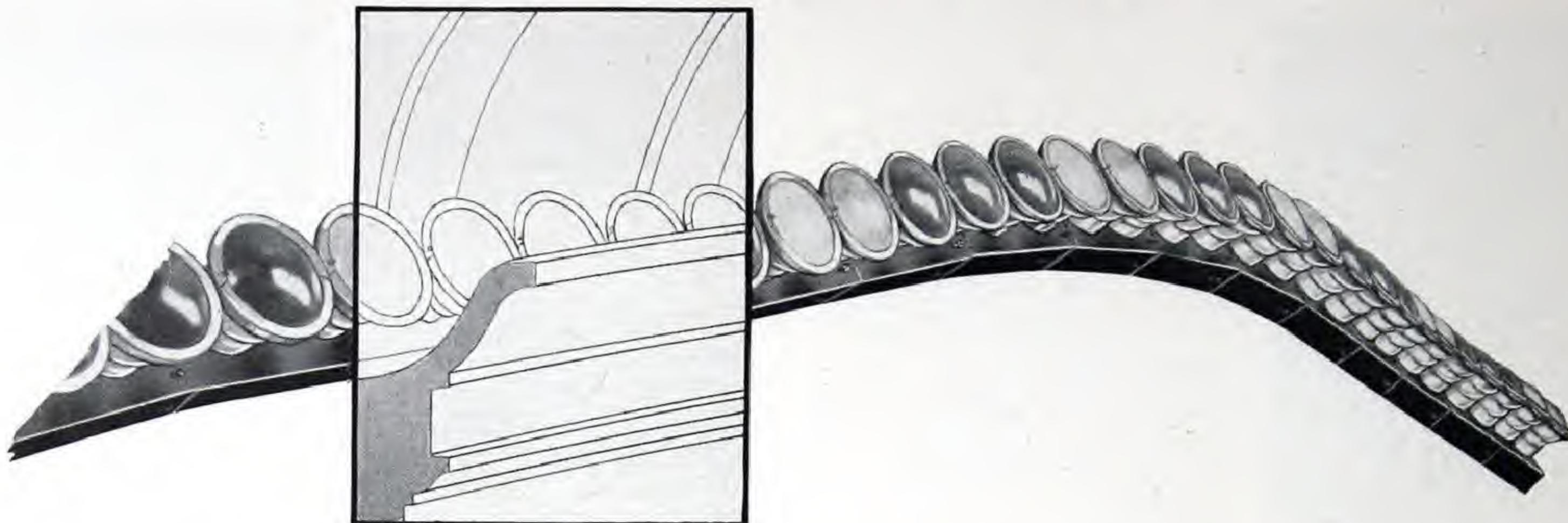
List Price, Per Foot \$4.00

For curved construction, per foot, add \$3.00.

Shipping weight, 8 lbs. per foot.



Flexible Link Trough



THE Major Flexible Link Troughing is an original and very practical solution of the fitting of troughs to curved coves. Without them, even with an accurate template, very often variations of a few inches will be found at the time of installation, and much time is lost, and a badly positioned cove trough is the result.

With flexible link troughing, however, the cove lays snugly in proper position for lighting



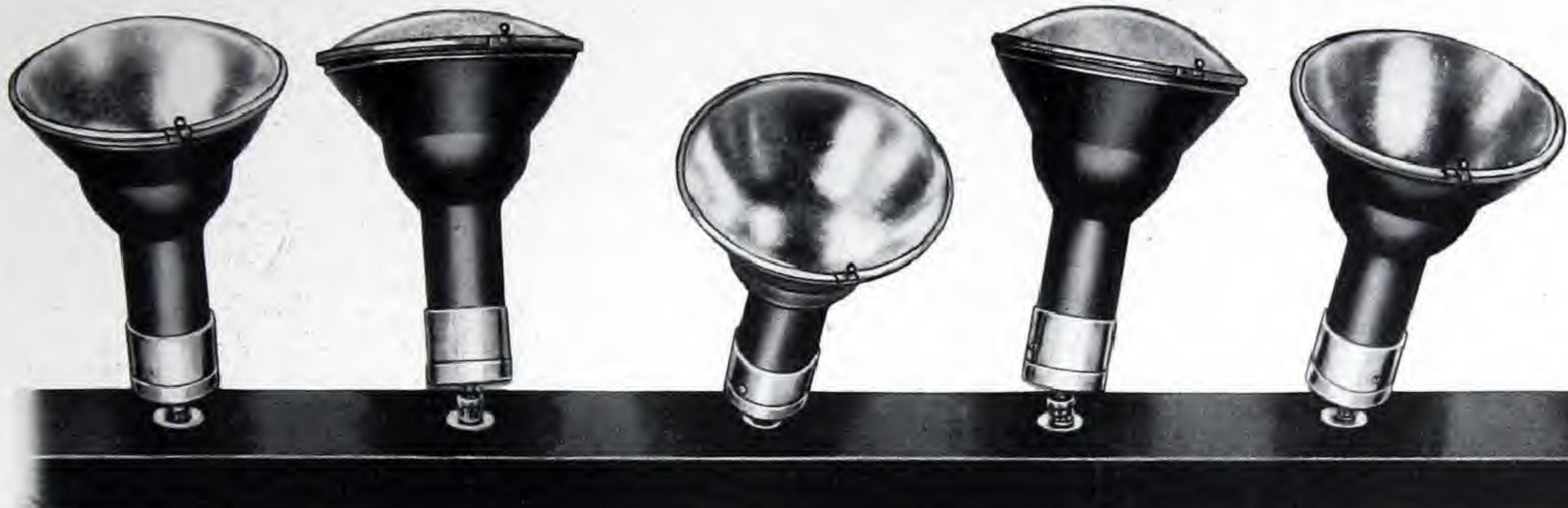
The Children's Room at Blum's Vogue in Chicago has an exceptionally illuminated domed ceiling. The installation was efficiently and easily made with Major troughing.

the dome, and can be installed in the most rapid manner. The illustration above shows the flexibility, both horizontally and vertically. It is adapted either to the unit reflector type or to the bare lamp type illustrated below. In the latter case, the reflecting surface is made flexible as well as the troughing itself.

In the price listings for various sizes of coves, an addition is made for curved construction. The specification of curved construction brings to you this extra service of flexibility and assures you of a properly fitted cove lighting unit.

In ordering curved troughing it is necessary to submit a sketch of the curved coves with the order, so that we can construct these approximately to the right curve, and allow this flexible feature to take up any variations between the template and the final cove construction. Please note particularly that flexible cove troughing saves the contractor, and therefore the owner, a considerable cost in making installations, as also do the Major splice plates, the method of wiring circuits and the tagging of wires. The Major Equipment Company is glad to provide cove layouts which are useful in installations. Particularly on large jobs, we provide complete cove layouts for the contractor to satisfactorily complete the installation.

Swivel Mounting Trough



VERY often it is desirable to have each reflector mounted on a swivel so that the light can be projected at different angles to obtain a smooth distribution.



This picture was taken entirely by the light from the coves and was not retouched in any way. Allowing for photographic difficulties it shows clearly the amount of illumination on the show cases and floor.

Conditions are very often better served if a single unit reflector is selected. See page 26 for individual swivel mountings.



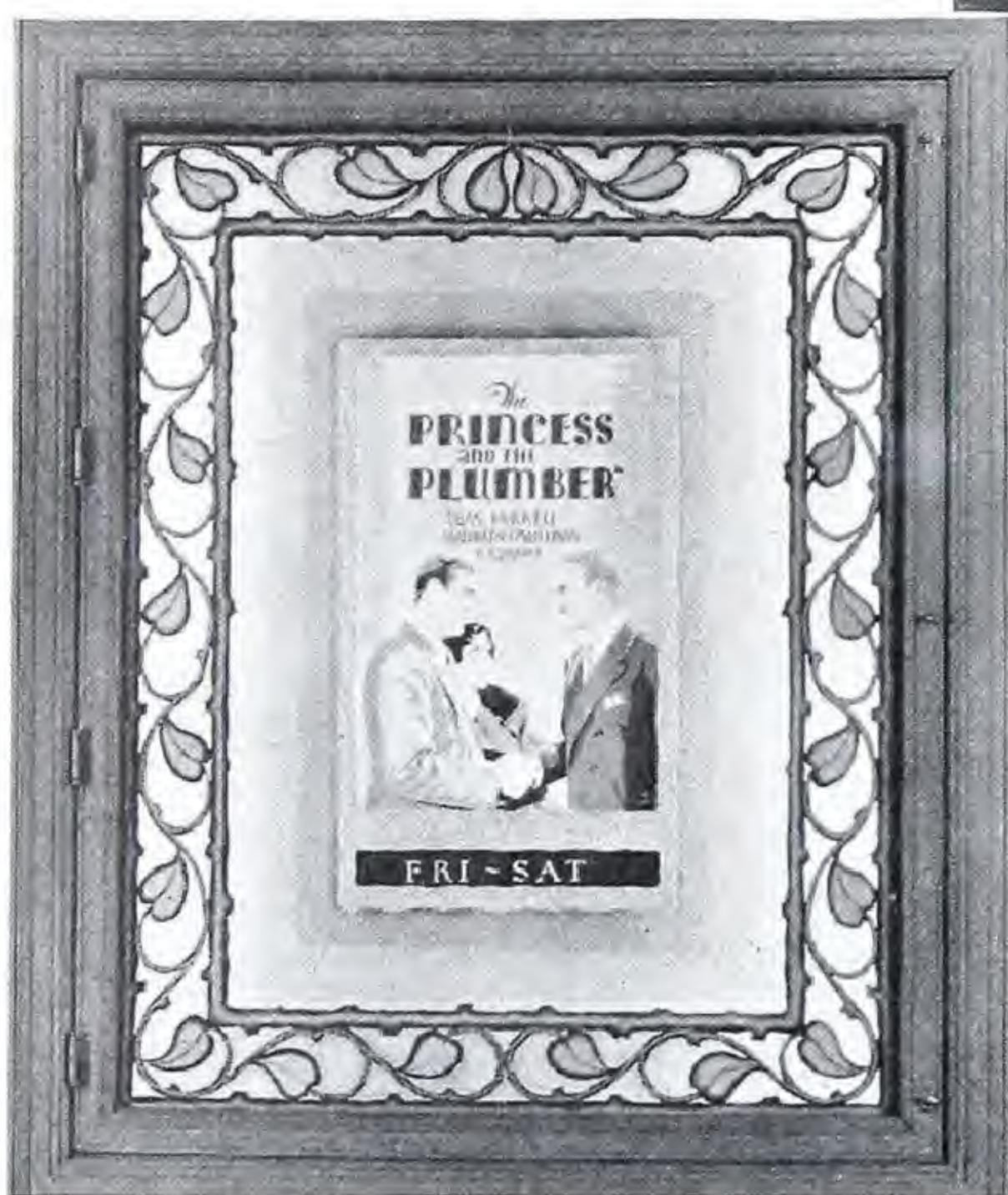
Major swivel mountings can be had on any of the coves listed or in individual uses, like that illustrated with the Major reflector mounted on standard outlet box cover.

Each reflector is mounted on a copper cup housing containing socket, and the entire unit is connected with a swivel to the trough or box cover. Major swivel mounting is made in two sizes, for both medium base and Mogul base equipment.

There are many uses to which these swivel mounted reflectors can be put, and we shall be glad to advise as to their adaptability in any conditions for which you may be planning. In figuring cove troughing with swivel mounting, add to the list price per each reflector, \$4.00 list, if using medium base socket, and \$6.00 list if using mogul base socket. These will be supplied in either medium or mogul equipment to suit the cove troughing specified.

Poster Frame Lighting

GOOD lighting for posters requires proper spacing of lamps, proper depth of frame, and other considerations. In building the Major poster frame lighting, consideration has been given to the experience ob-



tained in cove lighting. It is made in both unit reflector types and for bare lamps, the reflector types, of course, allowing for better distribution and a larger volume of light on the poster itself.

LIST PRICES

Cat. No. PFT-25—Poster Frame Troughing complete with spun copper chromium plated reflectors, for 25 watt lamps on 5" centers, roundels, internal wiring (not including lamps).

List Price, Per Foot \$12.00

Cat. No. PFT-60—Poster Frame Troughing complete with spun copper chromium plated reflectors for 60 watt lamps on 7" centers, roundels and internal wiring (not including lamps).

List Price, Per Foot \$13.00

Cat. No. PFT-B—Bare Lamp Poster Frame Troughing complete with medium base sockets on 3" or 4" centers (as specified) and wiring (not including lamps).

List Price, Per Foot \$3.00

Add \$4.00 list price each for three-foot cord and attachment plug for each circuit in each trough.

Dimensions for constructing Poster Frames are given only as minimum requirements, and we recommend that greater allowances be made to assure better lighting distribution. This is particularly true of the recess in the wall. It is a common error to make this too shallow. The minimum dimensions are: A, optional. The 25W Poster Lighting Trough is efficient up to 48" and the 60W from 48" up. B-25W min. 8"; 60W min. 10"; C-25W min. 8"; 60 W min. 10".



Shadow Box Lighting



FOR the lighting of strip signs over doorways, the Major shadow box lighting is very practical. Each installation is especially designed as the location and condition in each theater varies. The above illustration shows a Major shadow box installed over the doors leading into the inner foyer and special attention is called to the

strong lighting given the lettering, even against the strong reflected sunlight that is streaming through the doors. This calls for exceptionally efficient units and proper design of shadow box.

LIST PRICES

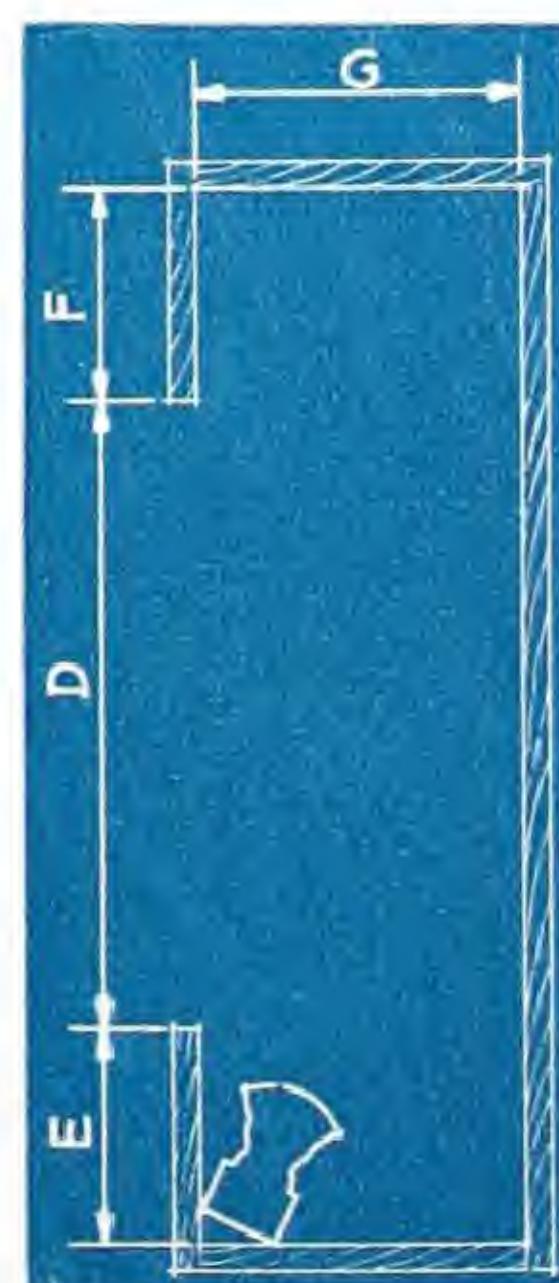
Cat. SBT-25—Shadow box troughing complete with spun copper chromium plated reflectors, for 25 watt lamps on 5" centers, including roundels, internal wiring (not including lamps). **List Price, Per Foot \$12.00**

Cat. SBT-60—Shadow box troughing complete with spun copper chromium plated reflectors for 60 watt lamps on 7" centers, including roundels and internal wiring (not including lamps). **List Price, Per Foot \$13.00**

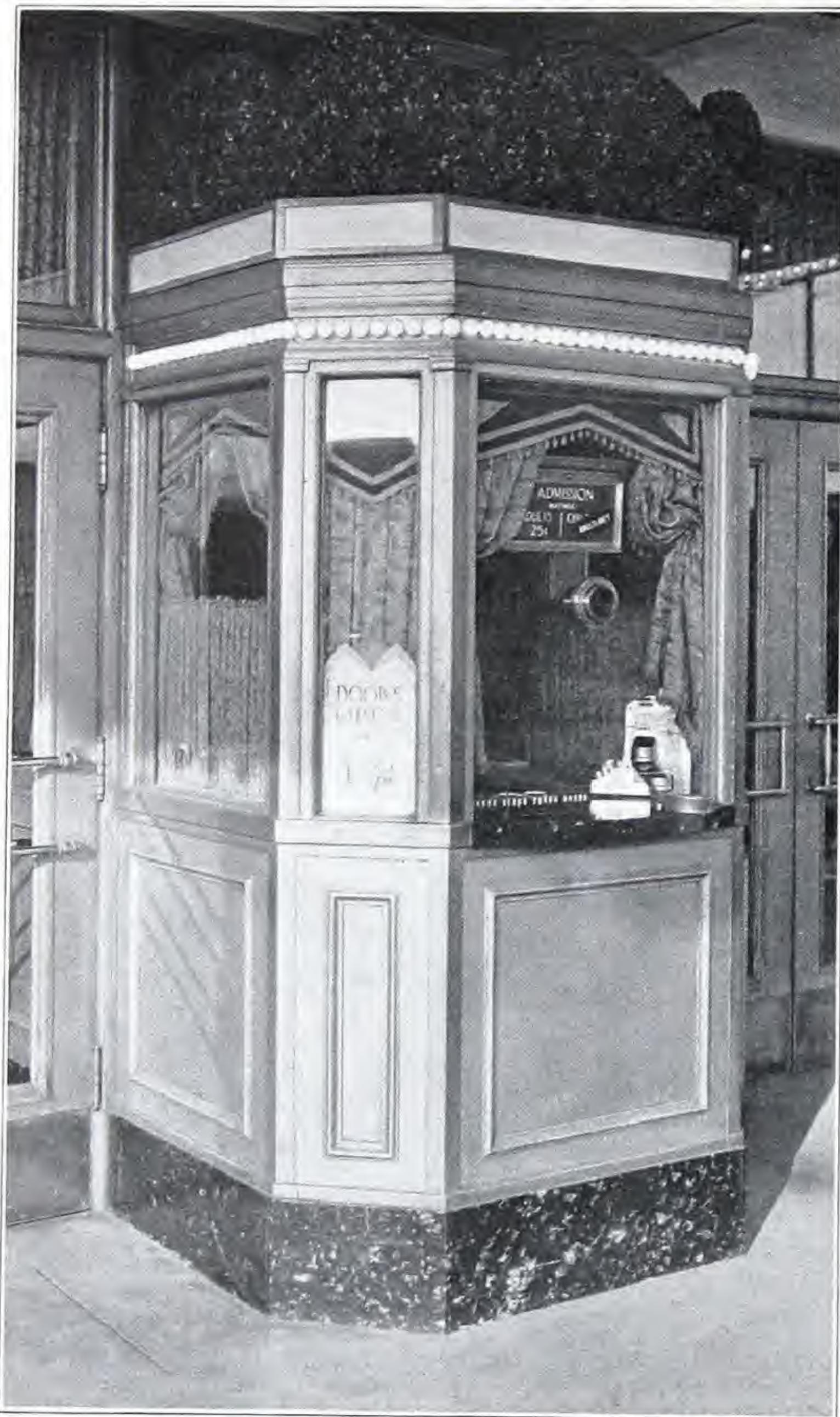
Cat. SBT-B—Shadow box troughing, complete with medium base sockets on 3" or 4" centers (as specified) and wiring (not including lamps). **List Price, Per Foot \$3.00**

Add \$4.00 list price each for three-foot cord and attachment plug for each circuit in each trough.

Dimensions for constructing shadow boxes are given only as minimum requirements and we recommend that greater allowances be made to assure better lighting distribution. The minimum dimensions are: D, optional; 25W up to 24"; 60W over 24"; E, 25W min. 8"; 60W min. 10"; G, 25W min. 8"; 60W, 10" min.



Ticket Booth Cresting Lighting



VERY attractive effects can be obtained with the Major Ticket Booth Cresting, as it has been so engineered to provide the very closest setting of lamps possible. It resembles, in place, a row so close to be likened to a diamond mounting, and leaves no appreciable space at the corners or between rows, where more than one row is used. Ticket booth cresting can be used elsewhere for other forms of ornamental lighting, and we shall be glad to send layout specifications if sketches are provided.

A feature is the corner fitting developed by Major to take care of slight variations in recess length and also make an even and tight corner.

Intermediate base sockets for 10W-S11 standard lamps are placed on $1\frac{1}{2}$ " centers minimum in each row.

LIST PRICES

Cat. No. TBC-1—Single row Cresting Trough complete with sockets and wiring (not including lamps).

List Price, Per Foot \$6.00

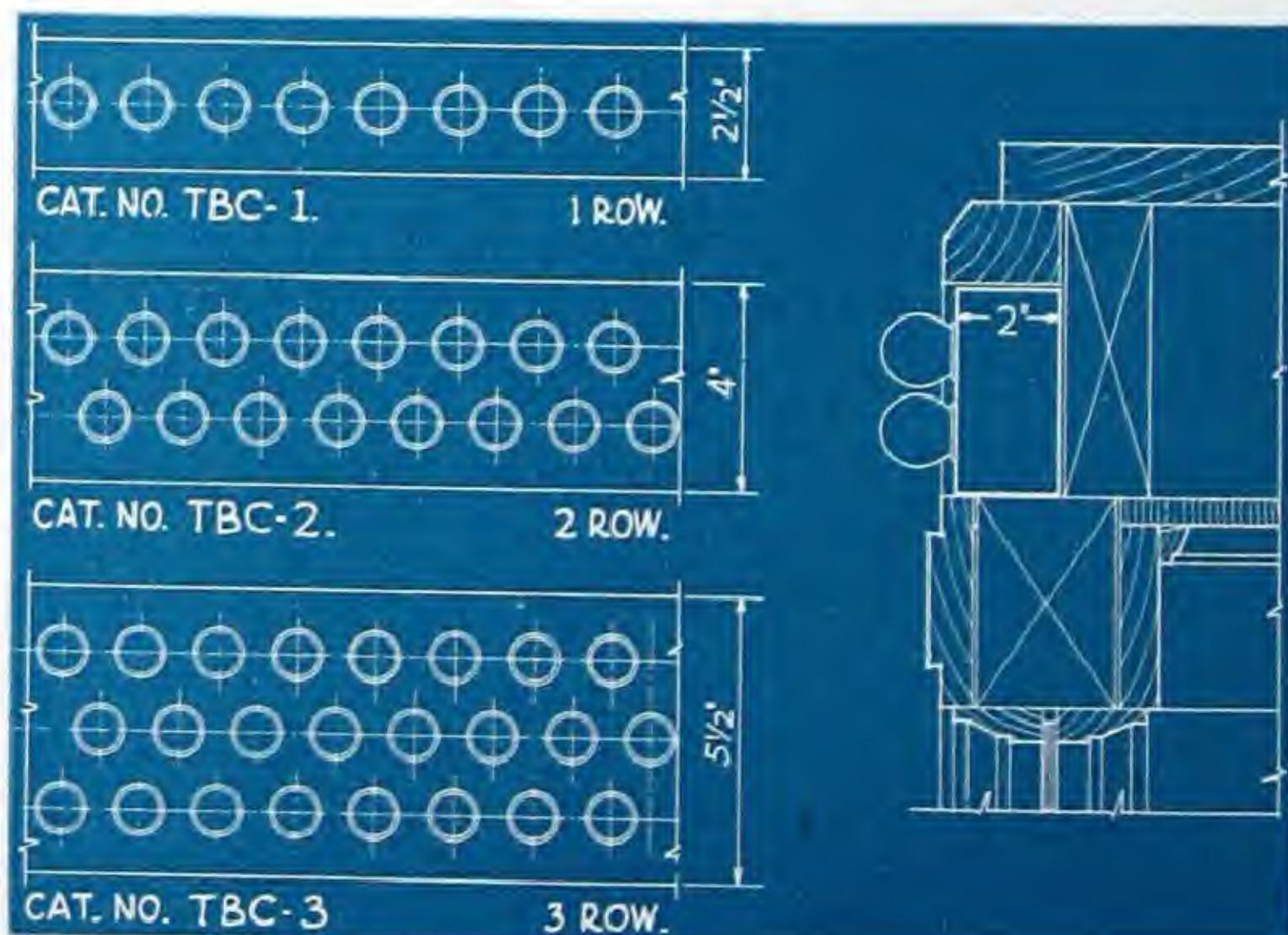
Cat. No. TBC-2—Double row Cresting Trough, complete with sockets and wiring (not including lamps).

List Price, Per Foot \$10.00

Cat. No. TBC-3—Triple row Cresting Trough, complete with sockets and wiring (not including lamps).

List Price, Per Foot \$14.00

Cresting is made to fit conditions on each job in accordance with sketch which must be furnished by customer.



MAJOR

Cloud Machines and Star Outlets



SO SUCCESSFUL is the Major Cloud Machine in the projection of clouds for atmospheric theaters, that it is practically standard equipment throughout the world. Its reliability of operation, its naturalness of projection, leave nothing to be desired. It is handled by remote control, occupies but little space, and is silent in operation. A new, unique, and original drive provides absolutely quiet operation.

Full-sized blue print of the mounting shelf will be sent upon request, and in designing the location it is well to remember that the Major Cloud Machine should be mounted as low as possible, that is, as far away from the ceiling as the design of the theater will permit and as near as possible to the center of the area to be covered.

LIST PRICE

Complete with standard Major Spotlight for 1000W lamp (lamp not included) on stand and base with 25 feet of stage cable (no stage plug included), and a hand-painted mica cloud effect disc enclosed in metal covering with special electric motor drive.

Catalog No. CM1000. List Price.....\$400.00
Shipping weight, 150 lbs. each

Major Star Outlet

Complete assembly, including Major socket and standard cover to fit a 4" octagon standard box, including housing for lamp and including dim flasher (lamp not included). The design permits easy relamping, and is most widely used for star outlets.

**Catalog No. 5510
List Price.....Each \$6.00**

A complete blue print showing location of stars and descriptive detail concerning the various constant and twinkling stars will be sent upon request.



Another New Exclusive Feature

Prefocus Socket

WITH the advent of the prefocus base lamp Major Equipment was prompt in redesigning the Major Spotlights to use it, again proving their leadership in being "first with the finest." With this socket the focus is set by experts at the factory and remains fixed perfectly, regardless of the number of lamp globes that

follow the first one. It is never necessary to refocus either a new lamp or the reflector. It is a great idea.

However, none of the other possibilities for improvement have been overlooked and the new Major Spotlights come to you better than ever.

Spotlights



Correctly designed ventilation with light-proof holes of ample size entirely across top.

Color frame holders of $\frac{1}{8}$ " sheet aluminum instead of cast. These cannot be broken and are easily straightened if bent with rough handling.

Spring tension color frame holders keep frame tight against front of lamp, eliminating leakage of white light and preventing color frame from falling out when lamp is moved.

High polish imported lens that does not discolor. Lens held in position with brass spring ring in a special groove preventing lens from falling out.

Pipe stand support with heavy cast iron Floor Base. Four holes are provided in base for fastening to floor.

Large knob for forward and back adjustment and locking in position entire lamp assembly. Works smoothly and quietly.

Strong collar with thumb screw for supporting lamp when pivoting horizontally.

Lever locking screw for holding lamp in fixed position.

DOUBLE LINED

Entire lamp is enclosed by double wall with $\frac{1}{2}$ " in. air space between. Linings overlap providing circulation without light leakage. Front and back are one-piece cast aluminum, smoothly finished. Crystaline finish on entire hood.

This is the only lamp built with a continuous steel band between front and back castings, drilled and tapped to hold hand wheel fittings which support lamp. Other spotlights depend entirely on the sheet metal side to support entire hood.

Major door has a $\frac{1}{2}$ " cast rabbit or flange around edge to prevent light from escaping.

Strong latch, with boss cast on door to pull door up tight, eliminating rattle.

Heavy spade handle provides an easy and cool hand grip.

Equipped with 3-ft. moving picture machine heavy asbestos cable.

15 amp. slip connector with two-holed clamp for asbestos cords and single hole clamp for cable.

Equipped with 25 feet extra flexible No. 14 stage cable. Stage plug not supplied.

All Major Spotlight Hoods are made of galvanealed iron and will not rust.

Supported on a yoke suspension making a rigid and easily handled spot. Supplied also with one arm suspension to be used to meet special conditions when mounted against wall.

Spotlights—6" and 8" Diameter Lens

Use 1000W G40 Prefocus Base Lamp

MAJOR has always been first in building a finely designed and constructed spot-light. This year many new features have been added, particularly the addition of the new Major Prefocus Socket. This is the first use of prefocus sockets in stage spotlamps and brings new service to the user. The proper focus is set at the factory and forever remains perfect, regardless of how many lamp changes may be necessary. By eliminating the focusing requirement the Major spotlamp always delivers a clean spot at full lighting efficiency.

LIST PRICES—Major Spotlight with 8" Lens

Major No. 1080 Standard Nitrogen Spotlight, Complete with Stand and Cable

Furnished with adjustable stand with 18" diameter cast iron base, 25-ft. of No. 14 stage cable, slip connector and one (1) metal color frame; lamp not included. Black crystalline finish.*
Shipping weight 52 lbs. each.

List Price, Each \$60.00

Major No. 1081 Standard Nitrogen Spotlight Hood with Yoke Only

(No stand or fittings), wired with 3-ft. of asbestos cord only, and furnished with one (1) metal color frame. Bulb not included. Black crystalline finish.* Shipping weight, 32 lbs. each.

List Price, Each \$50.00

Major No. 1082 Standard Nitrogen Spotlight with Pipe Clamp Support

Furnished with No. 64 Mogul Pipe Clamp and Pipe Nipple complete for use on Pipe Batten (no stand or fittings), and furnished with one (1) metal color frame, not including the lamp or batten. Black crystalline finish.* Shipping weight, 29 lbs. each.

List Price, \$56.00

Major No. 108 Metal Color Frames.....

List Price, 60c

*Green crystalline finish optional.

LIST PRICES—Major Spotlight with 6" Lens

Major No. 1060 Standard Nitrogen Spotlight, Complete with Stand and Cable

Furnished with adjustable stand with 18" diameter cast iron base, 25-ft. of No. 14 stage cable, slip connector and one (1) metal color frame, lamp not included. Black crystalline finish.*
Shipping weight 40 lbs. each.

List Price, Each \$50.00

Major No. 1061 Standard Nitrogen Spotlight Hood with Yoke Only

(No stand or fittings), wired with 3-ft. of asbestos cord only, and furnished with one (1) metal color frame. Bulb not included. Black crystalline finish.* Shipping weight, 26 lbs. each.

List Price, \$40.00

Major No. 1062 Standard Nitrogen Spotlight with Pipe Clamp Support

Furnished with No. 64 Mogul Pipe Clamp with Pipe Nipple complete for use on Pipe Batten (no stand or fittings), and furnished with one (1) metal color frame; not including the lamp or batten. Black crystalline finish.* Shipping weight 29 lbs. each.

List Price, \$46.00

Major No. 106 Metal Color Frames.....

List Price 50c

*Green crystalline finish optional.

Dimensions:

Cat. No. 1081

Length Overall, 19 $\frac{3}{4}$ "
Width Overall, 14 $\frac{1}{2}$ "
Height Hood only, 15 $\frac{3}{8}$ "
Length Hood only, 17 $\frac{1}{4}$ "
Width Hood only, 10 $\frac{1}{2}$ "

Cat. No. 1061

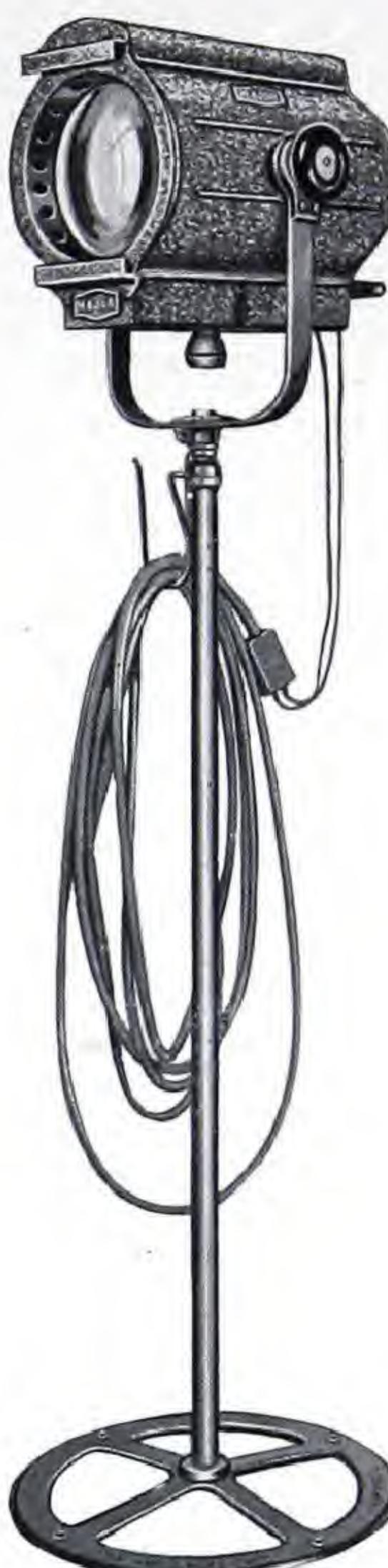
Length Overall, 18 $\frac{3}{4}$ "
Width Overall, 12"
Height Hood only, 15"
Length Hood only, 16 $\frac{1}{4}$ "
Width Hood only, 8"



Hood Only—Note particularly the clean appearance of the Major Spotlight. Compare the heavy hand wheel fixture for holding lamp in position. Milled teeth prevent slipping, regardless of jarring lamp receives.

With Pipe Clamp Support

Standard yoke equipment can be used for overhead support with Major Pipe Clamp. A strong, rigid unit particularly safe for handling bridge or border spot work.



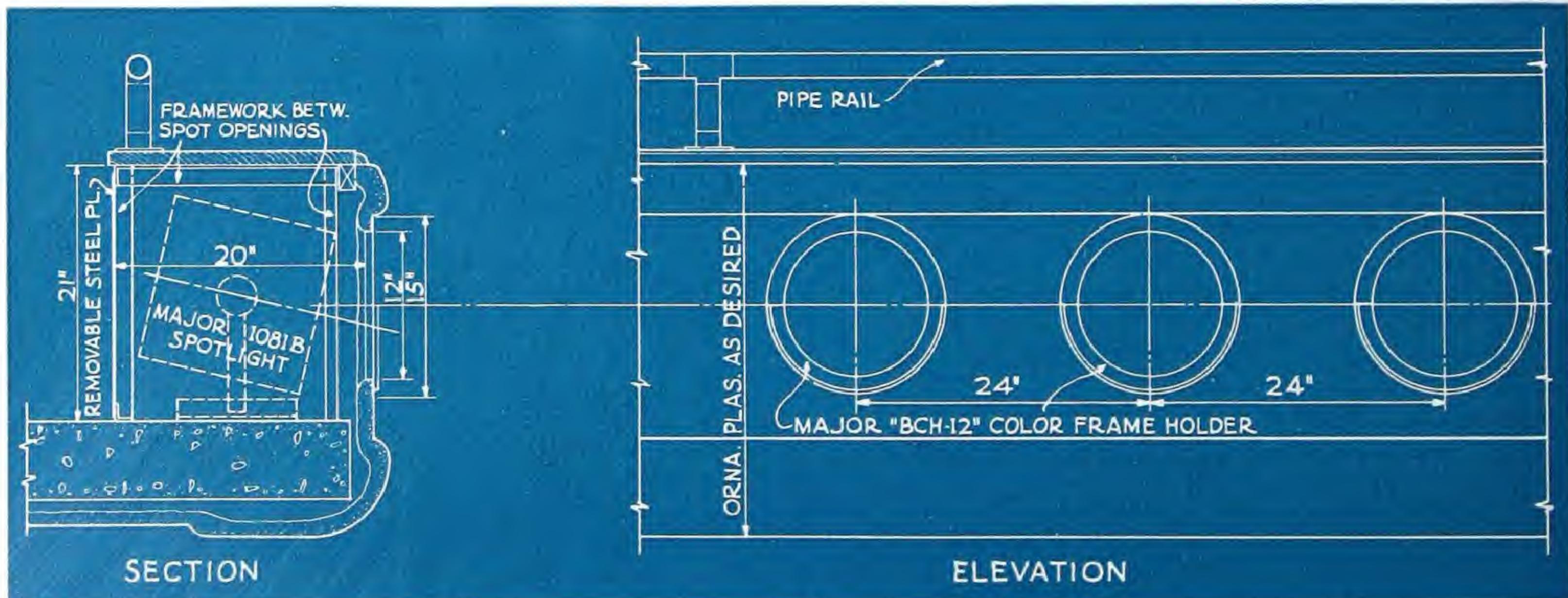
Major Spotlight,
Complete on Stand

Balcony Spots

THE new Major Balcony Spot is particularly designed to flood the orchestra pit or stage from the balcony rail. It comprises the same excellent features found in Major spotlights, yet is a powerful light unit, small enough to be enclosed in the balcony rail. The blue print below shows the installation and front view of the balcony rail. In the openings provided are color frame holders which give desired color effects.

It is important to use illumination for the stage from the balcony front, because it is projected from a necessary direction which can not be provided for from any other location.

The adjustable stand shown in the cut requires a minimum of space and yet allows the hood to be raised or lowered to center in the balcony front opening.



LIST PRICES

Catalog No. 1081-B—Balcony Spot Hood complete with prefocus socket and adjustable stand wired with 3-ft. asbestos cord only (not including lamp).

List Price, Each \$60.00

Catalog No. BCH-12—Gelatine color Frame Holder for mounting in plaster. List Price, Each \$8.00

Catalog No. BCF-12—Gelatine color Frame. List Price, Each \$2.00



Cat. No. 250
Baby Spotlight
Complete with Stand
and Cable

Completely wired. Furnished with single non-telescoping pipe stand, 14" cast iron base, 25-ft. of No. 14 stage cable and 15A Amp. slip connector.



Baby Spot Hood Only

The light-tight door and heavy focusing knob is shown above.

Baby or Pin Spotlights

4½" Diameter Lens

MAJOR Baby Spotlights are not to be compared except in price to other spotlights on the market. Major features are exclusive and the result of years of study. Completeness of detail is a result worth considering—it simply means more in every way for the price you pay. Major Baby Spotlights are equal in every way to the Major Standard Spotlight, and have every construction feature. They are equipped with 4½" lens, instead of 3" as other Baby Spots, and will use either a 250 watt or 400 watt G30 lamp.

Cat. No. 251—

Dimensions:

Length Overall 10"
Width Overall 7½"
Height Hood Only 8"
Width Hood Only 6"

Cat. No. 252

Baby Spotlight

with Pipe Clamp Support

Has 4½" lens and is arranged for either 250W or 400W G30 Mazda lamp. Other makes of baby spots have only 3" lens.



Baby Spot on
Pipe Clamp

LIST PRICES

Major No. 250 Baby Nitrogen Spotlight, Complete with Stand and Cable

Furnished with single non-telescoping pipe stand having 25-ft. of No. 14 stage cable, slip connector, and one (1) color frame, but not including the bulb. Shipping weight 30 lbs. each.

List Price, Each \$30.00

Major No. 251 Baby Nitrogen Spotlight Hood Only

Complete with yoke only (no stand or fittings), wired with 2-ft. of asbestos cord only, and furnished with one (1) metal color frame; but not including the bulb. Shipping weight 17 lbs. each.

List Price, Each \$25.00

Major No. 252 Baby Nitrogen Spotlight with Pipe Clamp Support

Furnished with clamp and pipe nipple, complete for use on pipe batten and furnished with one (1) metal color frame (no stand or fittings); with 2-ft. of asbestos cable, but not including the bulb. Shipping weight, 18 lbs. each.

List Price, Each \$29.00

Major No. 40 Extra Metal Color Frames.....

List Price, Each 40c

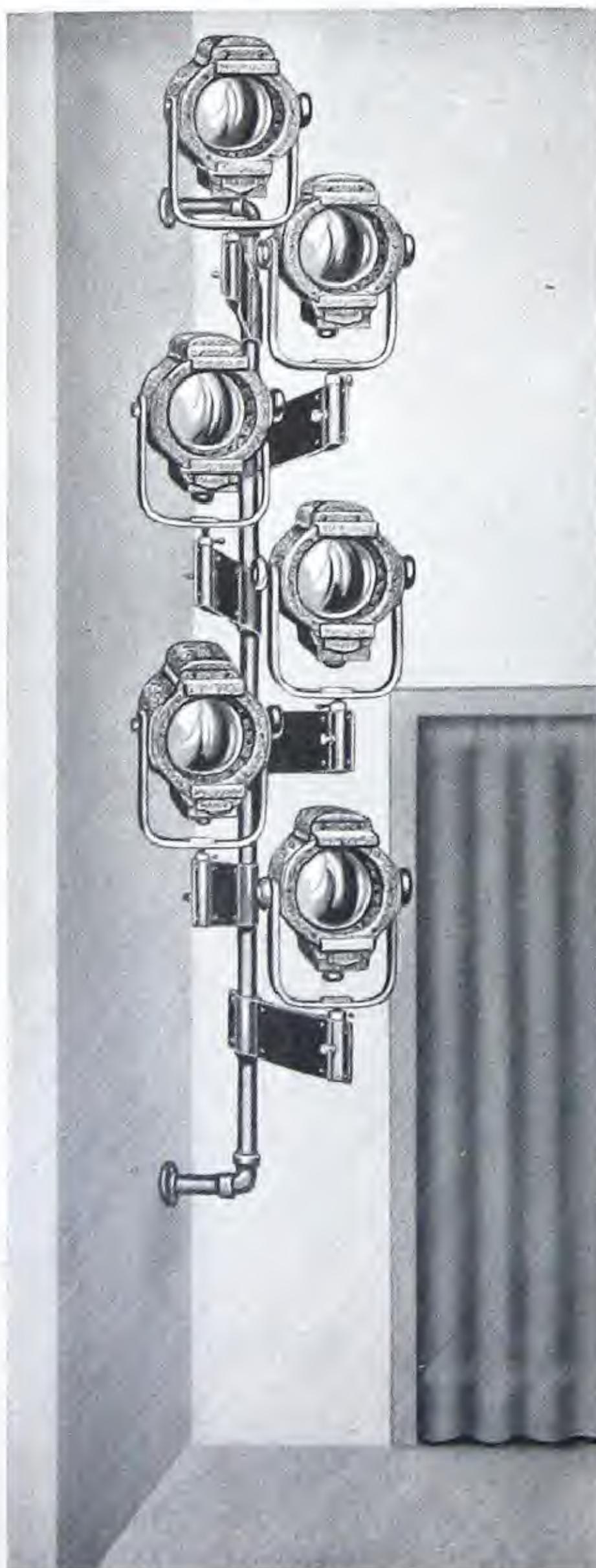
Multiple Mounting

THE desire for a great flood of light from the first entrances has called for a multiple mounting bracket as shown below. This not only fulfills the proscenium entrance requirements but has many other uses for spotlight mounting.



LIST PRICES

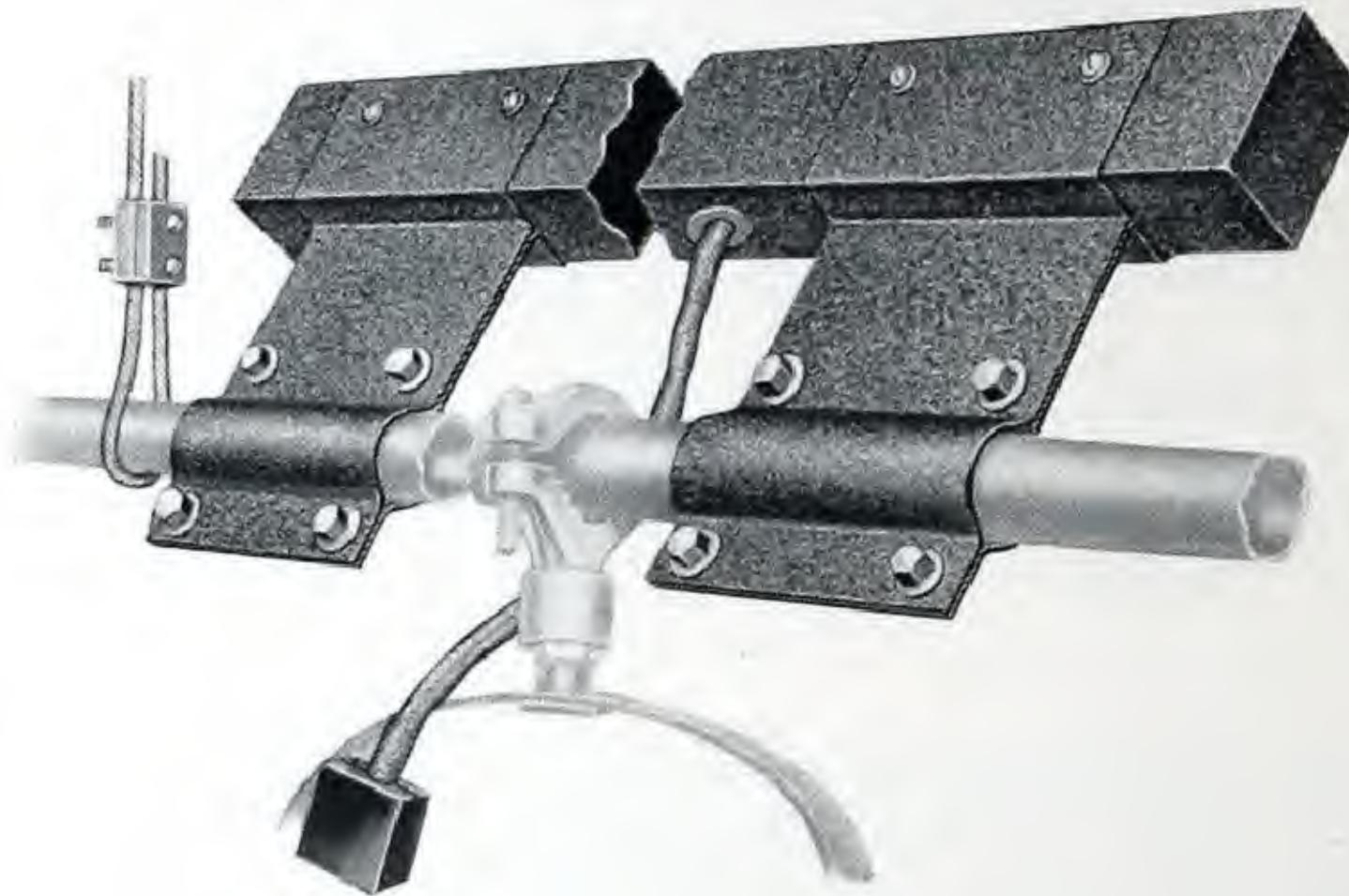
Catalog No. MM—Bracket complete with locking bolts, for $1\frac{1}{4}$ " pipe and spotlamp holder, with adjustable wing bolt for position.
List Price, Each \$8.00



The illustration shows how compactly six spotlights can be mounted clear of the floor and close against the wall. This multiple mounting bracket is also used on portable stage and hanging bridges. These are spotlights with 8" lenses, yet the outside handle is only 21" from the proscenium wall and all six are mounted in a vertical distance of seven feet.

Batten Boxes

FOR current supply to spotlight or Olivette hung on the pipe batten. This batten box has been found most practical. It clamps directly to the pipe batten, extending the entire length, and all wiring is enclosed. 18" of super-service cord leads equipped with 15 ampere slip connectors are spaced approximately every eighteen inches. This new Major Batten Box can be used on swinging bridges with equal facility, and does away with all long runs of cables that are both dangerous and expensive.



LIST PRICES

Catalog No. BB—Batten Box, furnished complete with sufficient supporting iron brackets for clamping to pipe. Completely wired for circuits and super-service leads and slip connectors (as specified), not including pipe batten or rigging of any kind.
List Price, Per Foot \$12.00

Shipping weight, 8 lbs. per foot

We are prepared to supply all designs of special mounting and current supply material needed for special equipment. We shall be glad to furnish drawings and specifications upon receipt of detailed inquiry.

New Design Olivettes—Efficient

Use 1500W or 1000W or 750W PS52 Lamp

ONLY in Major products will you find so revolutionary a change in design as this new Olivette. Major not only engineers a product for greater usefulness, but has the experience to make it practical.

Here is an Olivette which has a highly reflective surface proportioned to use all of the light available. It is light in weight, sturdy to withstand the hard stage usage, and protects by proper cushioning and ventilation the high-priced lamp used in modern floodlighting. It is equally adaptable to either single stand support, or pipe clamp support, either vertical or horizontal, and will prove to be an efficient all-around unit for Olivette use.



Cat. No. 1521A



Color Frames

Cat. No. 21A—Two (2) piece metal color frames, complete (no gelatin).

List Price, Each \$2.00

See page 86 for heat resistant gelatin for use with olivettes.



Lever locking screw for holding lamp in fixed position.

Spring brass clips hold color frame tightly against lamp housing so there is no leakage of light.

Ample ventilating neck and cap, each spun of one-piece aluminum, masked against light leakage.

Major New Molded Mogul Socket No. 55C with the Major patent spring center contact and sturdy, reliable shell.

Socket is removable from the top.

One-piece heavy aluminum spun reflector, oxidized aluminum finish inside and durable kristokrak black outside.

Major adjustable malleable iron knuckle and lock nut fitting that permits adjustment that will not slip.

Strong collar with thumb screw for supporting lamp when pivoting horizontally.

Large size heavy wire cable hook holder.



LIST PRICES

Cat. No. 1520A—Standard Nitrogen Olivettes, complete with stand and cable. Furnished with adjustable stand with 18" diameter cast iron base, 25 ft. of No. 14 stage cable, slip connector and one (1) color frame. Not including lamp.

List Price, Each \$50.00

Shipping weight 50 lbs. each.

Cat. No. 1521A—Standard Nitrogen Olivette Hood only with knuckle joint, and wired with 3-ft. of asbestos cord only. Lamp not included.

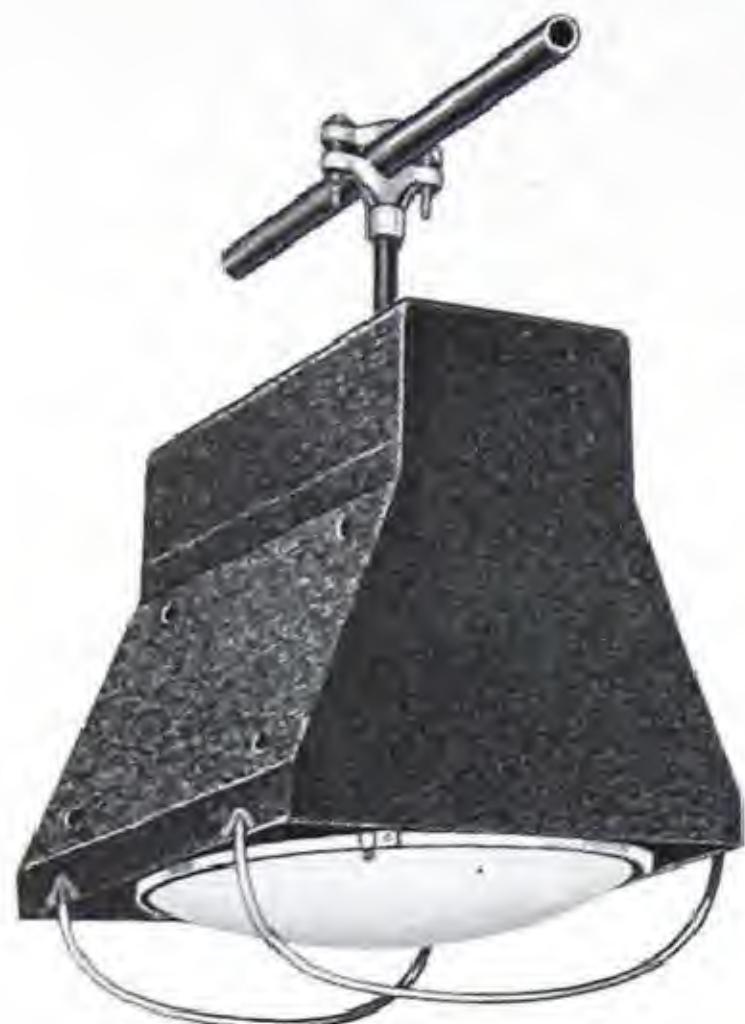
List Price, Each \$40.00

Cat. No. 1522A—Standard Nitrogen Olivettes with Pipe Clamp Support. With No. 64 Pipe Clamp for mounting on vertical or horizontal pipe frames; 25 ft. of No. 14 stage cable, slip connector and one (1) color frame. Lamp not included.

List Price, Each \$46.00

Shipping weight, 35 lbs. each.

Box Lights



Type 351

THESE new designs for Major Box Lights make excellent units for overhead floodlighting. A series of these provide a tremendous amount of illumination of more flexible control, both for color and position, than a border light. The Major Box Light has unusual reflective power, great stability, good ventilation, and a smooth exterior that even a gauze drop will pass without fouling. Made in two sizes, each a unit spun copper chromium plated reflector type with color or clear roundels. The small size can use either roundels or color frames for color effects. The large size use roundels only.



Type 350

LIST PRICES

Type 351

Small Box Light with Clamp with Chromium Reflectors
 Major No. 351 Baby Nitrogen Box Light for 300W-PS35 or 500W-PS40 lamp. Catalog No. 351, complete with No. 32 Pipe Clamp Hanger, spun copper chromium plated reflector, slip retaining ring, glass roundel, new Major molded mogul socket and wired with 2-ft. of asbestos cord; not including lamp. (Specify color of roundel desired.)
 List Price, Each \$24.00
 Extra Roundels.....
 List Price, Each \$6.00
 Shipping weight, 22 lbs. each

Type 350

Small Box Light with Chains with Chromium Reflectors
 Major No. 350 Baby Nitrogen Box Light for 300W-PS35 or 500W-PS40 lamp. Catalog No. 350, complete with suspension chain hangers, spun copper chromium plated reflector, slip retaining ring, glass roundel, new Major molded mogul socket and wired with 2-ft. of asbestos cord; not including lamp. (Specify color of roundel desired.)
 List Price, Each \$24.00
 Extra Roundels.....
 List Price, Each \$6.00
 Shipping weight, 22 lbs. each



Type 6101

Type 6100

Large Size Box Light with Chain Hangers
 Major Type 6100—Standard Large Size Box Light for 1500W, 1000W or 750W PS52 lamp. Catalog No. 6100, complete with suspension chain hangers, new Major molded mogul socket, spun copper chromium plated reflector, clamp retaining ring, glass roundel, and wired with 2-ft. asbestos cord. Not including lamp. (Specify color of roundel desired.)
 List Price, Each \$50.00
 Shipping weight, 45 lbs. each



Type 6100

Type 6101

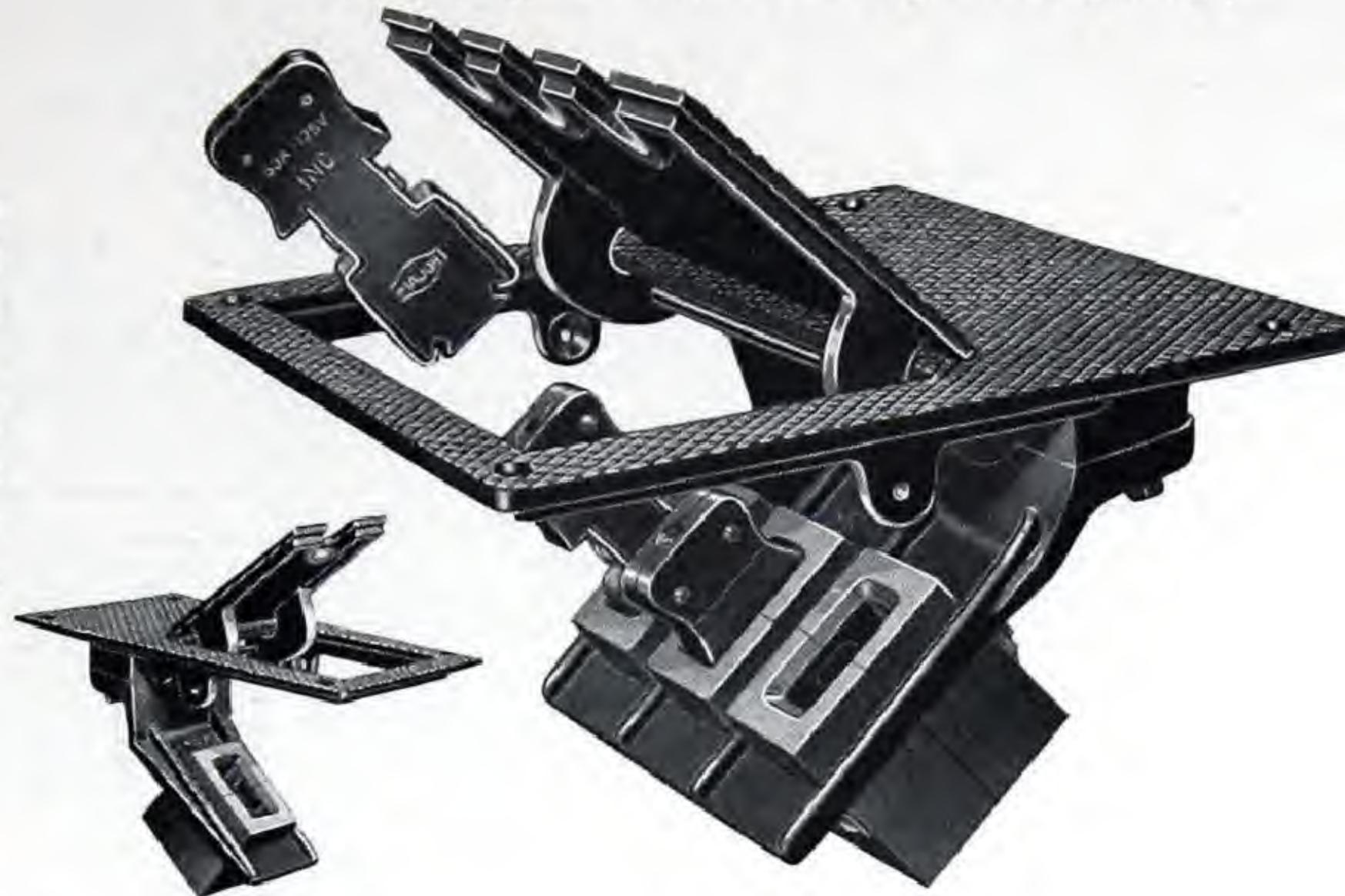
Large Size Box Light with Pipe Clamp
 Major Type 6101—Standard Large Size Box Light for 750W, 1500W or 1000W PS52 lamp. Catalog No. 6101, complete with No. 64 Mogul pipe clamp hanger, spun copper chromium plated reflector, clamp retaining ring, glass roundel, new Major mogul socket and wired with 2-ft. asbestos cord. Not including lamp. (Specify color of roundel desired.)
 List Price, Each \$50.00
 Shipping weight, 45 lbs. each

Extra Roundels, any color or clear.....
 List Price, Each \$15.00

Stage Floor Pockets—50 Ampere Capacity

(See Page 47 for 100 Ampere Capacity)

Self-closing Flush Door in top plate, all of which has diamond shape safety tread surface. This self-closing cover can not be opened by stepping on the hinged edge as found on some stage pockets.



Cable slots permit cover to remain tightly closed whether pocket is in use or not. Receptacles are mounted in an iron frame and fastened on the cover frame so that the entire assemblage can be lifted out as one unit. Note the moulded heavy duty receptacle—an exclusive Major feature.

FIVE SIZES List Prices and Dimensions

One Gang—For smaller stages and possibly the back stage pockets of larger ones. Dimensions: A, 6 $\frac{3}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5/16"; D, 10 $\frac{3}{4}$ "; E, 5 $\frac{1}{4}$ "; F, 10 $\frac{1}{4}$ ". Major One Gang Stage Pocket—complete with one plug. Shipping weight, 32 lbs. each.

Cat. No. FF51.....List Price, Each \$10.00

Two Gang—Suitable where arc and incandescent receptacles together are desired. Dimensions: A, 8 $\frac{1}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5/16"; D, 10 $\frac{3}{4}$ "; E, 6 $\frac{5}{8}$ "; F, 10 $\frac{1}{4}$ ". Major Two Gang Stage Pocket—complete with two plugs. Shipping weight 34 lbs. each.

Cat. No. FF52.....List Price, Each \$20.00

Three Gang—A handy pocket for the average theater, providing incandescent receptacles for red, blue and amber without arc. Dimensions: A, 13 $\frac{3}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5/16"; D, 10 $\frac{3}{4}$ "; E, 12 $\frac{1}{4}$ "; F, 10 $\frac{1}{4}$ ". Major Three Gang Stage Pocket—complete with three plugs. Shipping weight 37 lbs. each.

Cat. No. FF53.....List Price, Each \$30.00

Four Gang—An efficient pocket, most satisfactory where a number of movable stage lighting units are to be used. This four gang is usually installed to afford receptacles for red, blue and amber incandescent circuits and one arc circuit receptacle. Dimensions: A, 13 $\frac{3}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5/16"; D, 10 $\frac{3}{4}$ "; E, 12 $\frac{1}{4}$ "; F, 10 $\frac{1}{4}$ ". Major Four Gang Stage Pocket—complete with four plugs. Shipping weight, 39 lbs. each.

Cat. No. FF54.....List Price, Each \$40.00

Five Gang—For large theaters where four incandescent (for white and color) and one arc is needed. Grouping of arc and incandescent as specified. Dimensions: A, 16 $\frac{1}{2}$ "; B, 11 $\frac{3}{4}$ "; C, 5/16"; D, 10 $\frac{3}{4}$ "; E, 16 $\frac{3}{8}$ "; F, 10 $\frac{1}{4}$ ". Major Five Gang Stage Pocket—complete with five plugs. Shipping weight 42 lbs. each.

Cat. No. FF55.....List Price, Each \$50.00

Additional Plugs for Arc Cat. No. 800A or Incandescent Cat. No. 800. List Price, Each \$2.00

All Major Pockets are approved by the Underwriters' Laboratories. Receptacles are rated at 50 amperes—125 volts.

STAGE Floor Pockets built by Major are heavy and rugged in construction. They have many features, to which has been added the molded receptacle. Other minor improvements have been made to create a finer service in this type of equipment. The straight sided box can be put in the stage when the conduit is run, providing easier installation and allowing no ledges for dirt to collect. A hinged door with a strong latch provides ready access for cleaning. Two $\frac{3}{4}$ " and two 1" knock-outs are provided on each side, near bottom. Conduits can enter or leave box from any direction.



Wall Pockets

HERE is an excellent group of Wall Pockets for use in back-stage walls, fly floors, moving picture booths and wherever flush or surface mounting wall pockets are convenient and desirable.

Where a One Gang Wall Pocket is to be used in

Major One Gang Flush Mounting Wall Pocket—complete with one plug. Dimensions: A, 6 $\frac{1}{4}$ "; B, 6 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 7"; E, 7". Shipping weight, 6 $\frac{1}{2}$ lbs. each.

Cat. No. FW51 (Flush)—List Price, \$10.00

Major Two Gang Flush Mounting Wall Pocket—complete with two plugs. Dimensions: A, 10"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 11 $\frac{1}{2}$; E, 8 $\frac{3}{4}$. Shipping weight, 10 $\frac{1}{2}$ lbs. each.

Cat. No. FW52 (Flush)—List Price, \$20.00

Major Three Gang Flush Mounting Wall Pocket—complete with three plugs. Dimensions: A, 14 $\frac{1}{2}$ "; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 15 $\frac{7}{8}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 13 $\frac{1}{4}$ lbs. each.

Cat. No. FW53 (Flush)—List Price, \$30.00

Major Four Gang Flush Mounting Wall Pocket—complete with four plugs. Dimensions: A, 18"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 19 $\frac{3}{4}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 17 lbs. each.

Cat. No. FW54 (Flush)—List Price, \$40.00

Major Five Gang Flush Mounting Wall Pocket—complete with five plugs. Dimensions: A, 21 $\frac{5}{8}$ "; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 23 $\frac{3}{8}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 23 lbs. each.

Cat. No. FW55 (Flush)—List Price, \$50.00

Major One Gang Surface Mounting Wall Pocket—complete with one plug. Dimensions: A, 6 $\frac{1}{4}$ "; B, 6 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 7"; E, 7". Shipping weight, 6 $\frac{1}{2}$ lbs. each.

Cat. No. SW51 (Surface)—List Price, \$10.00

Major Two Gang Surface Mounting Wall Pocket—complete with two plugs. Dimensions: A, 10"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 11 $\frac{1}{2}$; E, 8 $\frac{3}{4}$. Shipping weight, 10 $\frac{1}{2}$ lbs. each.

Cat. No. SW52 (Surface)—List Price, \$20.00

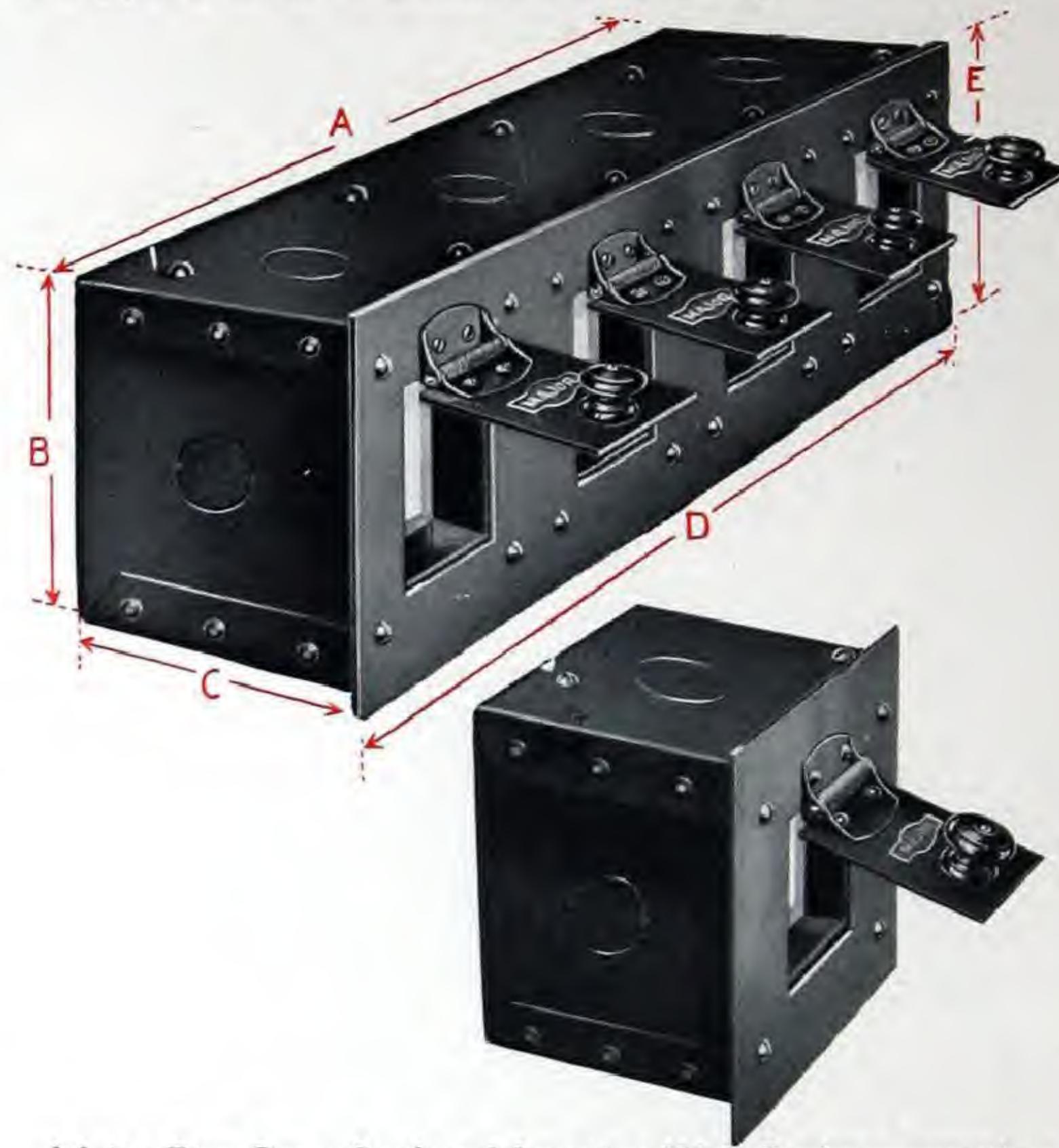
Major Three Gang Surface Mounting Wall Pocket—complete with three plugs. Dimensions: A, 14 $\frac{1}{2}$ "; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 15 $\frac{7}{8}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 13 $\frac{1}{4}$ lbs. each.

Cat. No. SW53 (Surface)—List Price, \$30.00

Major Four Gang Surface Mounting Wall Pocket—complete with four plugs. Dimensions: A, 18"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 19 $\frac{3}{4}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 17 lbs. each.

Cat. No. SW54 (Surface)—List Price, \$40.00

a more compact size, such as for "Front of Balcony" Spots, Picture Booths in Schools, etc., the Major One Gang Wall Pocket is especially recommended. It combines strength with light weight and compactness, and is supplied with or without lock and key.



Major Five Gang Surface Mounting Wall Pocket—complete with five plugs. Dimensions: A, 21 $\frac{5}{8}$ "; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 23 $\frac{3}{8}$ "; E, 8 $\frac{3}{4}$. Shipping weight, 23 lbs. each.

Cat. No. SW55 (Surface)—List Price, Each \$50.00

Cover Lock and Two Keys, extra per opening..... \$5.00

Extra Major Plugs, each..... \$2.00

Portable Stage Plugging Boxes

Standard plugging receptacles are on each side, with individual spring hinged door over each opening. Fuse compartments are on top and bottom, each with spring hinged door. Cartridge fuses are to be used, of desired capacity up to 60 amperes. Four ball castors make it readily mobile and a heavy cable clip allows it to be pulled around by the cable without strain on the connection. Entire top of unit may be removed for repairing if required.

LIST PRICES

Major Ten Gang Portable Plugging Box

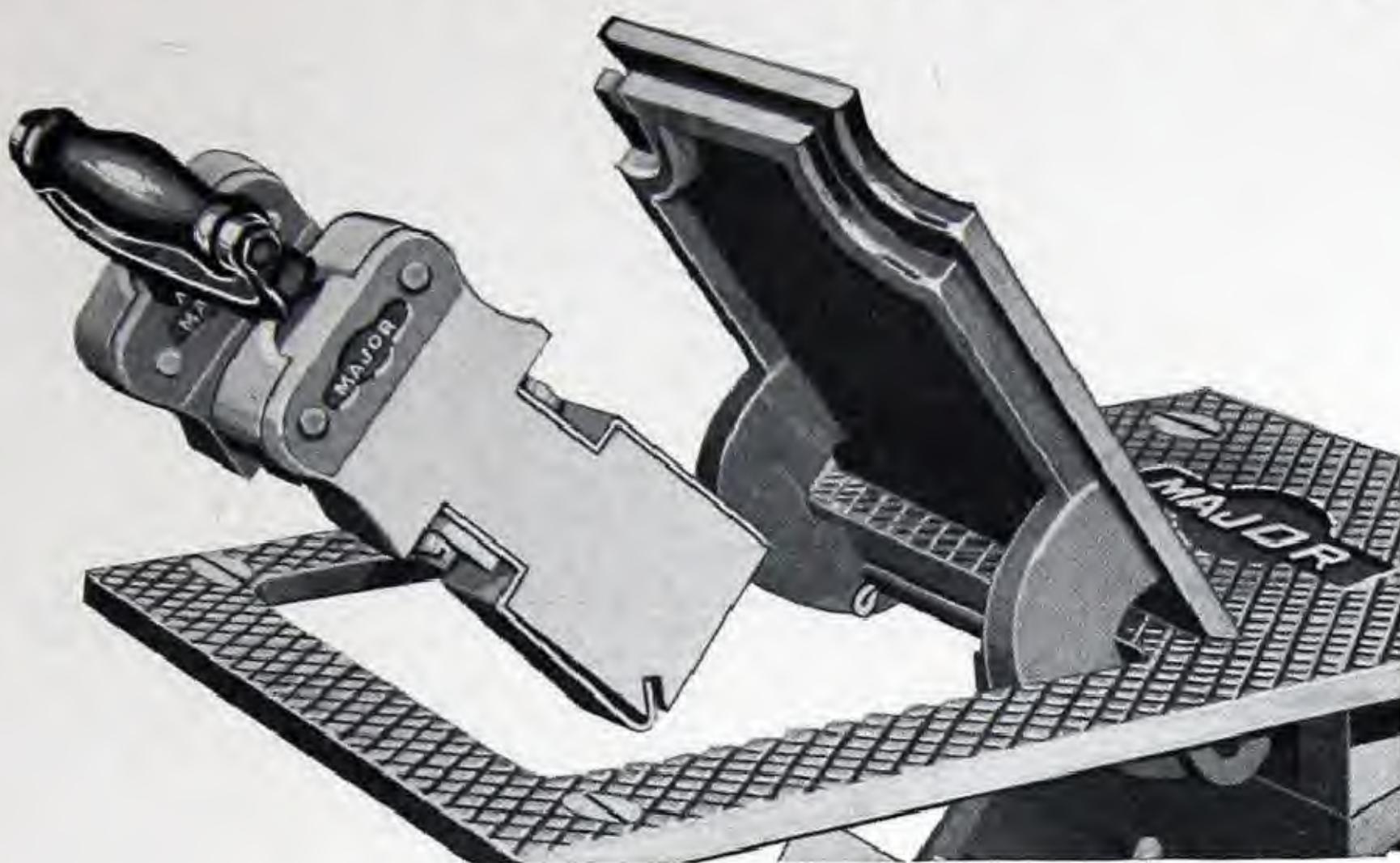
| | | |
|----------|--------------------------------|-----------------------------|
| 4 Gang. | Shipping weight 40 lbs. each. | Cat. No. P. B. 4, \$ 80.00 |
| 6 Gang. | Shipping weight 60 lbs. each. | Cat. No. P. B. 6, \$120.00 |
| 8 Gang. | Shipping weight 80 lbs. each. | Cat. No. P. B. 8, \$140.00 |
| 10 Gang. | Shipping weight 100 lbs. each. | Cat. No. P. B. 10, \$160.00 |
| 12 Gang. | Shipping weight 120 lbs. each. | Cat. No. P. B. 12, \$180.00 |
| 14 Gang. | Shipping weight 140 lbs. each. | Cat. No. P. B. 14, \$200.00 |

DIMENSIONS



| | Length | Width | Height |
|---------|--------------------|--------------------|--------|
| 4 Gang | 12 $\frac{1}{4}$ " | 11 $\frac{1}{2}$ " | 7" |
| 6 Gang | 15" | 11 $\frac{1}{2}$ " | 7" |
| 8 Gang | 17 $\frac{3}{4}$ " | 11 $\frac{1}{2}$ " | 7" |
| 10 Gang | 20 $\frac{1}{2}$ " | 11 $\frac{1}{2}$ " | 7" |
| 12 Gang | 24 $\frac{1}{4}$ " | 11 $\frac{1}{2}$ " | 7" |
| 14 Gang | 27" | 11 $\frac{1}{2}$ " | 7" |

100 Ampere Capacity Pockets



ONE AND TWO GANG ONLY

Prices Include One and Two Plugs Respectively

Floor Pockets

See page on Floor Pockets

One Gang—Dimensions: A, 8 $\frac{1}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5 $\frac{1}{16}$ "; D, 10 $\frac{3}{4}$ "; E, 6 $\frac{5}{8}$ "; F, 10 $\frac{1}{4}$ ". Major One Gang, 100 Amp. Stage Pocket—complete with one plug. Shipping weight, 34 lbs. each.

Cat. No. FF101—List Price, Each \$30.00

Two Gang—Dimensions: A, 13 $\frac{3}{4}$ "; B, 11 $\frac{3}{4}$ "; C, 5 $\frac{1}{16}$ "; D, 10 $\frac{3}{4}$ "; E, 12 $\frac{1}{4}$ "; F, 10 $\frac{1}{4}$ ". Major Two Gang Stage Pocket—complete with two plugs. Shipping weight, 39 lbs. each.

Cat. No. FF102—List Price, Each \$60.00

ONE AND TWO GANG ONLY

Wall Pockets

See page on Wall Pockets

Flush Mounting

Major One Gang Flush Mounting Wall Pocket—complete with one plug. Dimensions: A, 10"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 11 $\frac{1}{2}$ "; E, 8 $\frac{3}{4}$ ". Shipping weight, 10 $\frac{1}{2}$ lbs. each.

Cat. No. FW101—List Price, Each \$30.00

Major Two Gang Flush Mounting Wall Pocket—complete with two plugs. Dimensions: A, 18"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 19 $\frac{3}{4}$ "; E, 8 $\frac{3}{4}$ ". Shipping weight, 17 lbs. each.

Cat. No. FW102—List Price, Each \$60.00

Extra 100 Ampere Capacity Plugs for Floor and Wall Pockets.....

Cat. No. 900, \$8.00

Surface Mounting

Major One Gang Surface Mounting Wall Pocket—complete with one plug. Dimensions: A, 10"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 11 $\frac{1}{2}$ "; E, 8 $\frac{3}{4}$ ". Shipping weight, 10 $\frac{1}{2}$ lbs. each.

Cat. No. SW101—List Price, Each \$30.00

Major Two Gang Surface Mounting Wall Pocket—complete with two plugs. Dimensions: A, 18"; B, 7 $\frac{1}{4}$ "; C, 5 $\frac{1}{4}$ "; D, 19 $\frac{3}{4}$ "; E, 8 $\frac{3}{4}$ ". Shipping weight, 17 lbs. each.

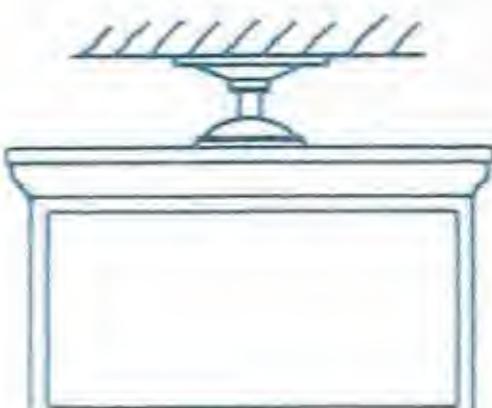
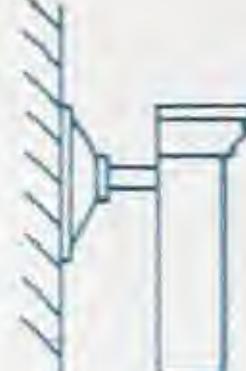
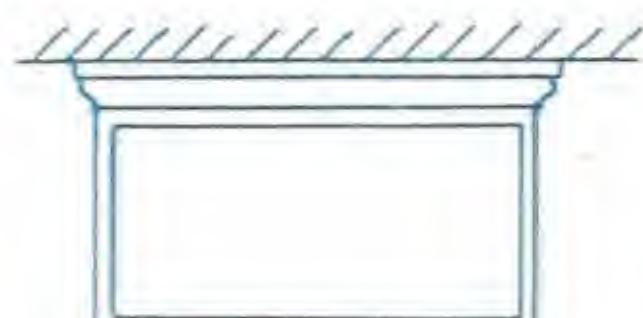
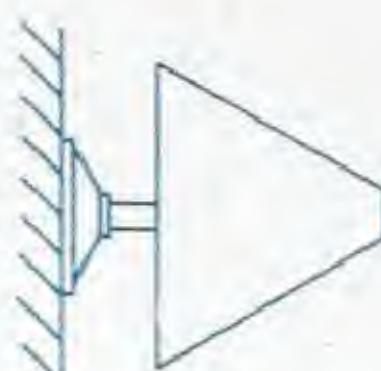
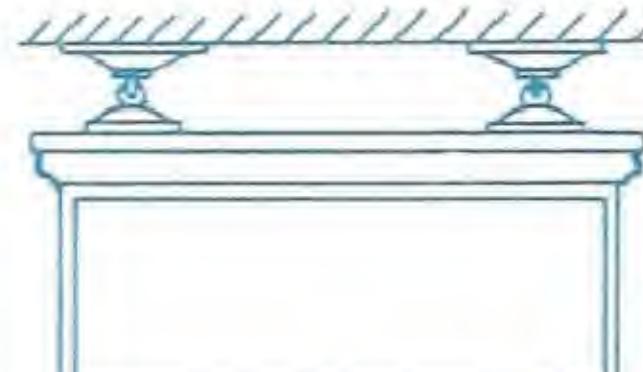
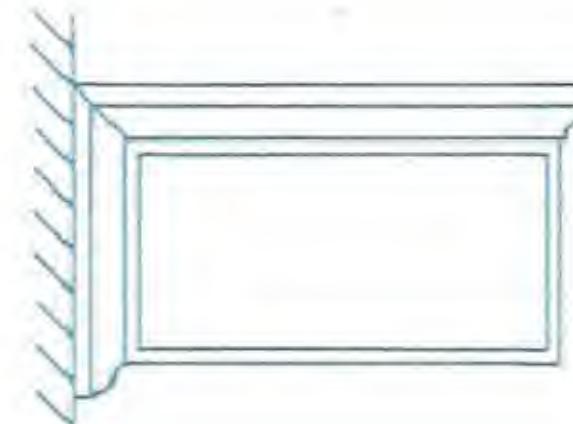
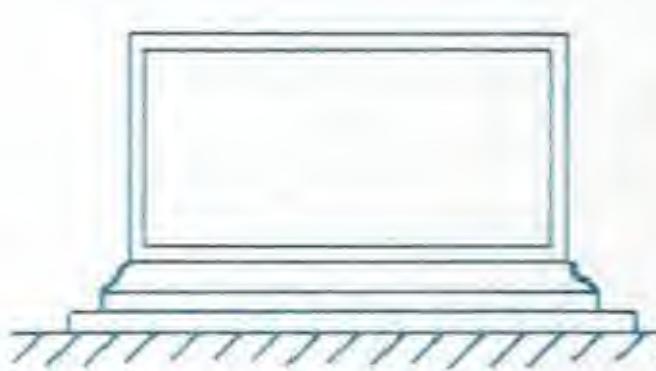
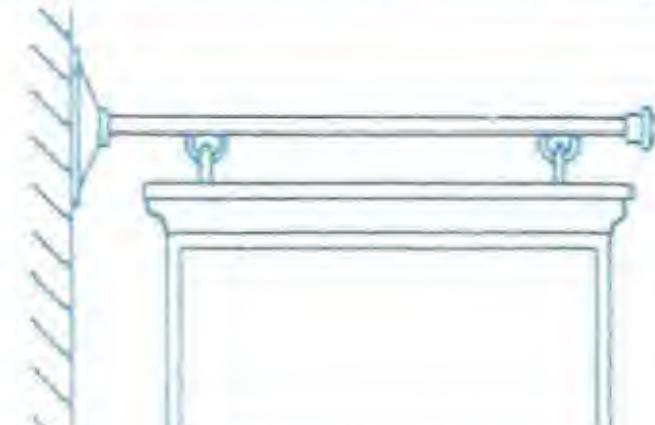
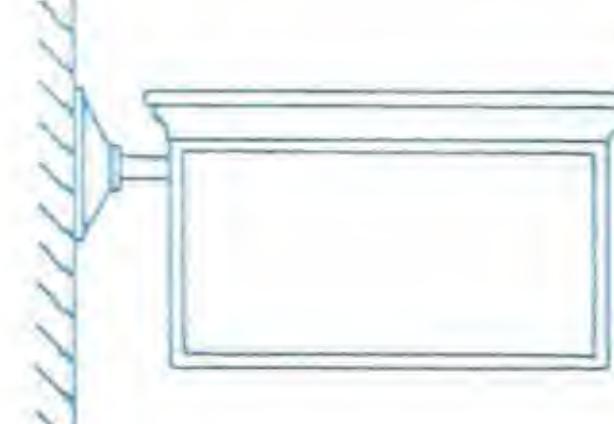
Cat. No. SW102—List Price, Each \$60.00

Rheostat Racks

THE Major Rheostat Rack and Raceway is furnished with drilling to accommodate from four to ten rheostats as required by job conditions, including bushings for wires from rheostat to D. C. cabinet, and including raceway from rack to D. C. cabinet, at a list price of \$300.00. The above price does not include rheostats or wiring. It is necessary to furnish a plan view of the booth showing location of the D. C. cabinet and approximate location of rheostat and raceway in order to properly make up the raceway between the two units.



Major Directional and Exit Signs

| | |
|--|--|
|  <p>Canopy Stem Hanging Type for Ceiling Use.</p> <p>MTG. NO. 1.</p> |  <p>Rear Bracket Wall Type with Sign Parallel with Wall.</p> <p>MTG. NO. 7.</p> |
|  <p>Soffit Mounting Type for Mounting Against Ceiling in Minimum Space.</p> <p>MTG. NO. 2.</p> |  <p>Triangular Sign for Side Wall Canopy Mounting.</p> <p>MTG. NO. 8.</p> |
|  <p>Double Canopy Hanging Type for either Stem or Chain Hangers.</p> <p>MTG. NO. 3.</p> |  <p>Flat Wall Mounting Type for Installation Against Wall.</p> <p>MTG. NO. 9.</p> |
|  <p>Bracket Wall Type for Side Mounting in Minimum Space.</p> <p>MTG. NO. 4.</p> |  <p>Base Mounting Type for Use on Top of Partitions or Ledges.</p> <p>MTG. NO. 10.</p> |
|  <p>Canopy Bar Bracket Type for Side Mounting with Variable Length Chain.</p> <p>MTG. NO. 5.</p> |  <p>Special Hanging Type, specially for Box Office Installations for Admission Signs.</p> <p>MTG. NO. 11.</p> |
|  <p>Side Bracket Wall Type with Sign at Right Angles to Wall.</p> <p>MTG. NO. 6.</p> |  <p>Flush Mounting Type, principally used for Exit Signs.</p> <p>MTG. NO. 12.</p> |

You'll like these exclusive features!

HERE are so many distinctive features connected with the new Major directional signs that we can point out but few of these on this page. In general construction they are made of the finest rolled bronze, polished and lacquered, with well finished corners and thorough workmanship. They are supplied in twelve distinct mountings and either single or double face, or both, as the mountings may permit. They are also made in three standard glass sizes, and will be furnished with any specified glass marking.

One of the most unique and exclusive features is the method of socket mounting. The Major Tee-Light Mounting is shown by the



illustration on this page. In order to relamp it is only necessary to lift the socket from the fixture where the lamps may be removed and replaced with the greatest convenience and the greatest of safety for the 25W-T lamps used. The light source is supplied by two 25 watt



tubular frosted type lamps which evenly distribute the light across the sign. This light is greatly amplified and more evenly distributed by a complete chromium plated lining throughout the sign.

The front frame of Major signs holding the glass panel is entirely removable from the fix-

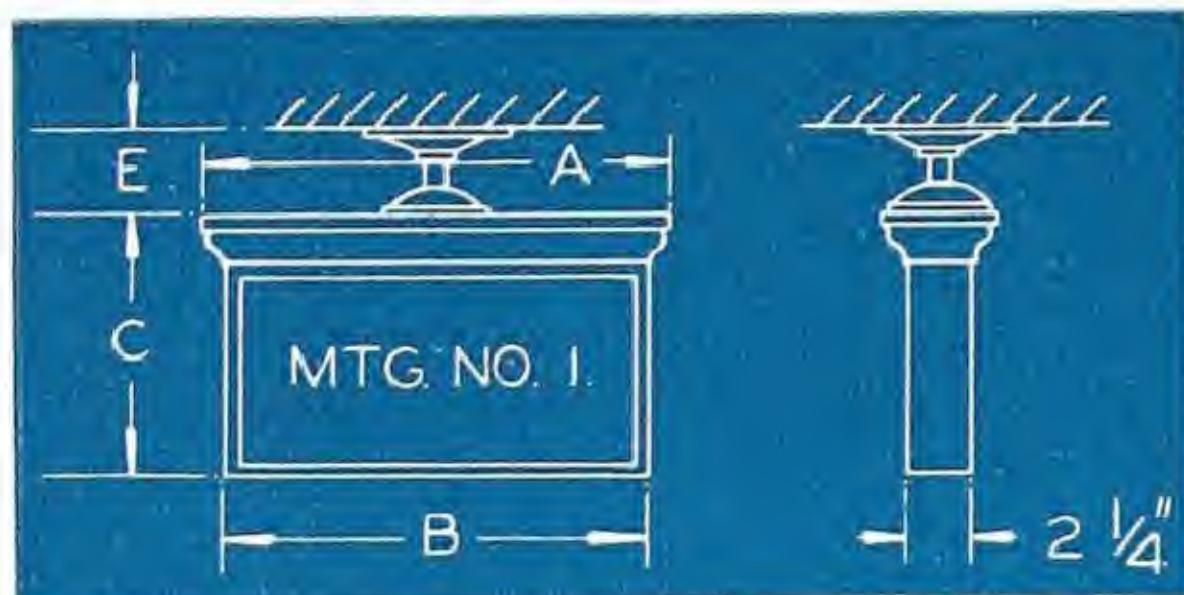


ture. It is held at the bottom by two studs with corresponding holes in the outer frame, and held tight at the top with a rosette fastening screw. No tools are required to remove front and replace it. The glass supplied with Major signs is an opalescent kind with smooth front and rippled back.

The lettering stands out clear against a background of dark bronze. The whole assemblage is rich-appearing and suited to the finest interior. They are simple in contour and match any style of interior decoration. They will be supplied in various finishes as specified, at slight additional cost.

Directional Signs—Rolled Bronze

Canopy Stem Hanging Type
Single and Double Face



LIST PRICES

Cat. No. R6101—Single Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening, 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6201—Double Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening, 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8101—Single Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8201—Double Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9101—Single Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8" x 15".

List Price, Each \$55.00

Cat. No. R9201—Double Face Stem Hanging Ceiling Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8" x 15".

List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed.

Note: The "E" dimension is 4" minimum.

Extra or Replacing Glass Panels only (any marking).

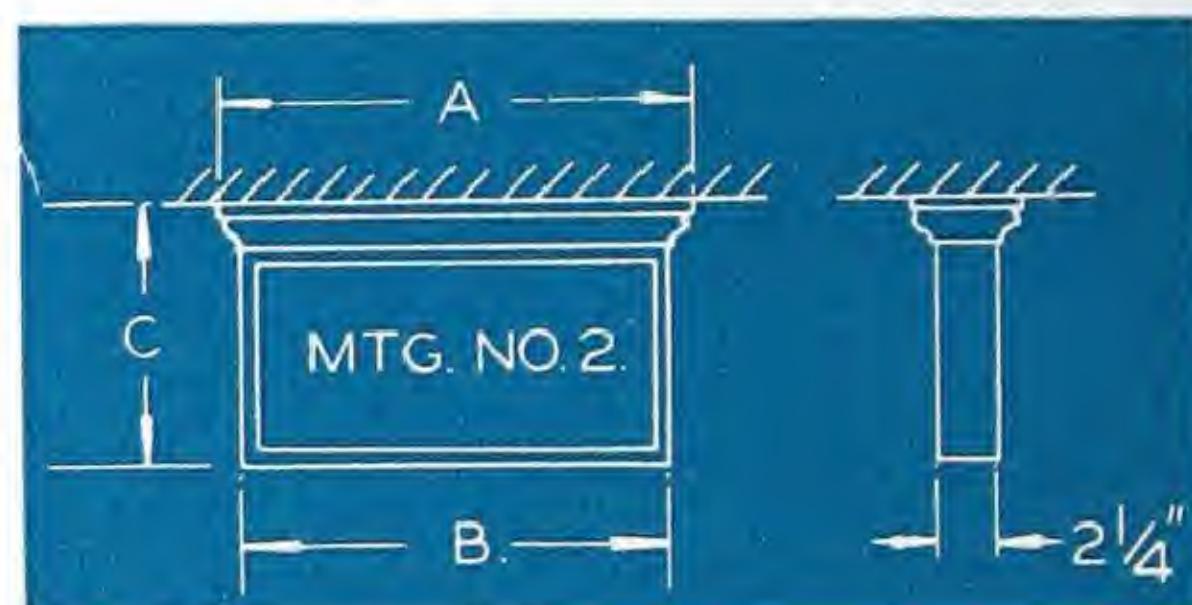
Shipping weight, 10 lbs. each. **List Price, Each \$12.00**

Lettering on Glass Panels supplied as ordered, without extra cost.



Soffit Mounting Type

Single and Double Face



LIST PRICES

Cat. No. R6102—Single Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6202—Double Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4", B, 14"; C, 8 3/4"; Glass Opening, 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8102—Single Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 17", B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8202—Double Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9102—Single Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8" x 15".

List Price, Each \$55.00

Cat. No. R9202—Double Face Ceiling Mounting Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening 8" x 15".

List Price, Each \$60.00

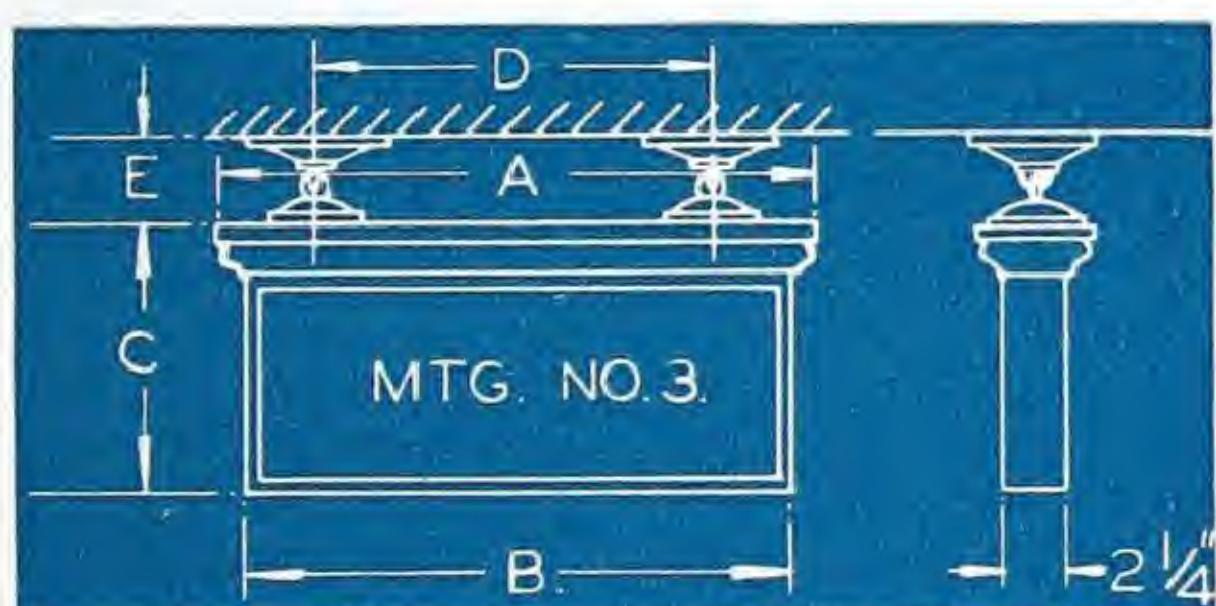
Approximate shipping weight, 12 lbs. each, boxed.

Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each. **List Price, Each \$12.00**

Lettering on Glass Panels supplied as ordered, without extra cost.

Directional Signs—Rolled Bronze

Double Canopy Hanging Type



LIST PRICES

Cat. No. R6103—Single Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; D, 12"; E, 4 3/4", minimum; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6203—Double Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; D, 12"; E, 4 3/4", minimum; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8103—Single Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; D, 13"; E, 4 3/4", minimum; Glass Opening 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8203—Double Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; D, 13"; E, 4 3/4", minimum; Glass Opening 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9103—Single Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; D, 14"; E, 4 3/4", minimum. Glass Opening, 8x15".

List Price, Each \$55.00

Cat. No. R9203—Double Face Hanging Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; D, 14"; E, 4 3/4", minimum; Glass Opening, 8x15".

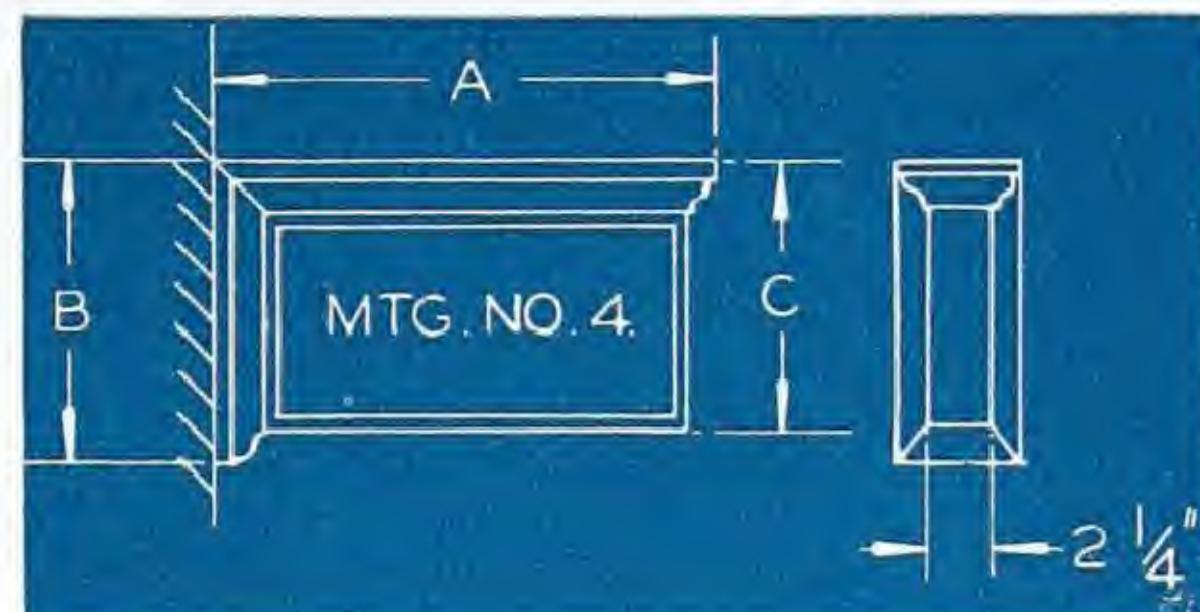
List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed.

Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each. List Price, Each \$12.00

Lettering on Glass Panels as ordered, without extra cost.

Bracket Wall Mounting



The above sign can have side wall or both side wall and ceiling mounting. As in all Major signs the lettering is optional.

LIST PRICES

Cat. No. R6104—Single Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 16 1/2"; B, 9 5/8"; C, 8 3/4"; Glass size 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6204—Double Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 16 1/2"; B, 9 5/8"; C, 8 3/4"; Glass size, 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8104—Single Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 17 3/4"; B, 11 1/2"; C, 10 5/8"; Glass size, 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8204—Double Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 17 3/4"; B, 11 1/2"; C, 10 5/8"; Glass size, 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9104—Single Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 19 1/4"; B, 12 3/8"; C, 11 1/2"; Glass size, 8 x 15".

List Price, Each \$55.00

Cat. No. R9204—Double Face Edgewise Mounting Sign. Complete with lamps and wiring. Dimensions: A, 19 1/4"; B, 12 3/8"; C, 11 1/2"; Glass size, 8 x 15".

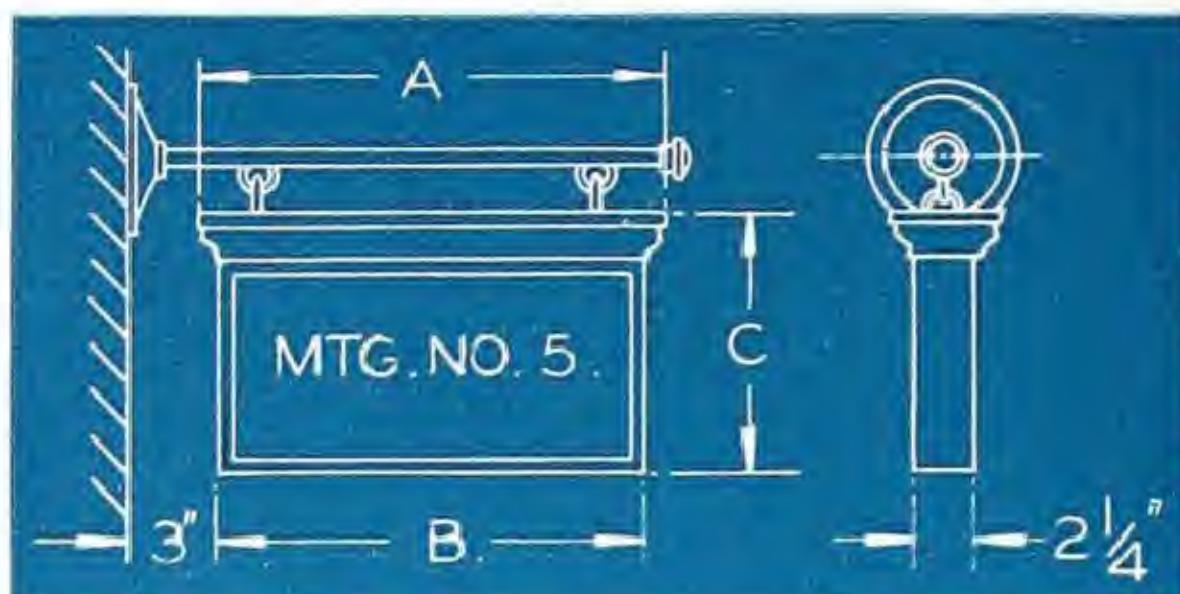
List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed. **Extra or Replacing Glass Panels only** (any marking). Shipping weight, 10 lbs. each. List Price, Each \$12.00

Lettering on Glass Panels as ordered, without extra cost.

Directional Signs—Rolled Bronze

Canopy Bar Bracket Type Single and Double Face



LIST PRICES

Cat. No. R6105—Single Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6205—Double Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening, 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8105—Single Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8205—Double Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9105—Single Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening 8" x 15".

List Price, Each \$55.00

Cat. No. R9205—Double Face Bracket-Wall Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening 8" x 15".

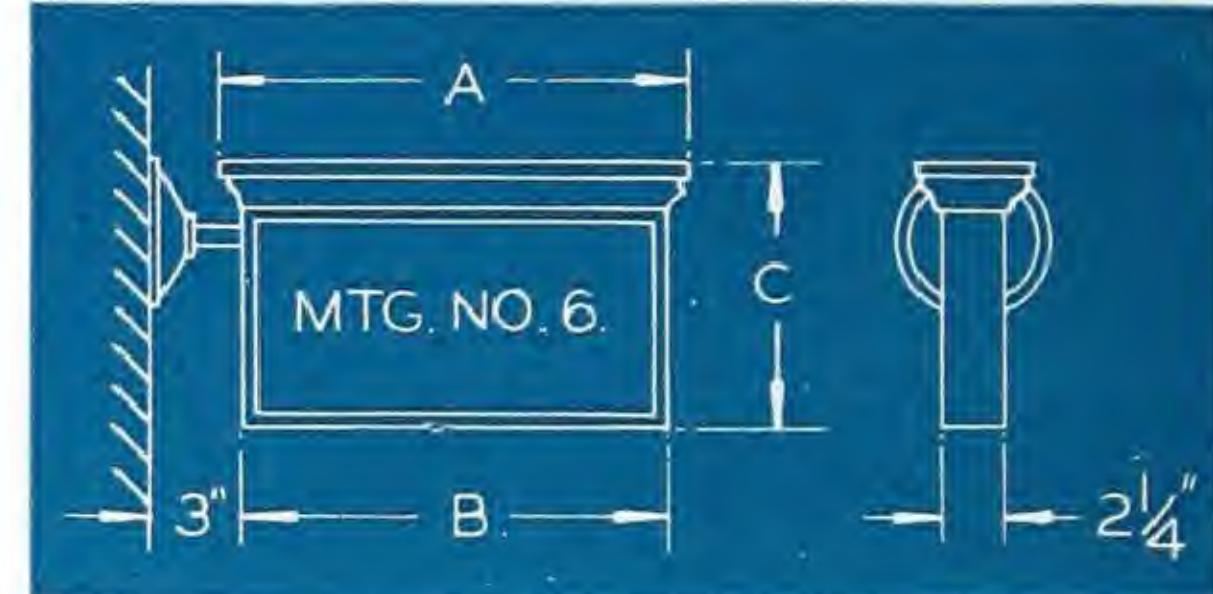
List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed.
Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each.

List Price, Each \$12.00

Lettering on Glass Panels supplied as ordered, without extra cost.

Side Bracket Wall Type Single and Double Face



LIST PRICES

Cat. No. R6106—Single Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$45.00

Cat. No. R6206—Double Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4" x 12 1/4".

List Price, Each \$50.00

Cat. No. R8106—Single Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$50.00

Cat. No. R8206—Double Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8" x 13 1/2".

List Price, Each \$55.00

Cat. No. R9106—Single Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8" x 15".

List Price, Each \$55.00

Cat. No. R9206—Double Face Bracket Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8" x 15".

List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed.
Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each.

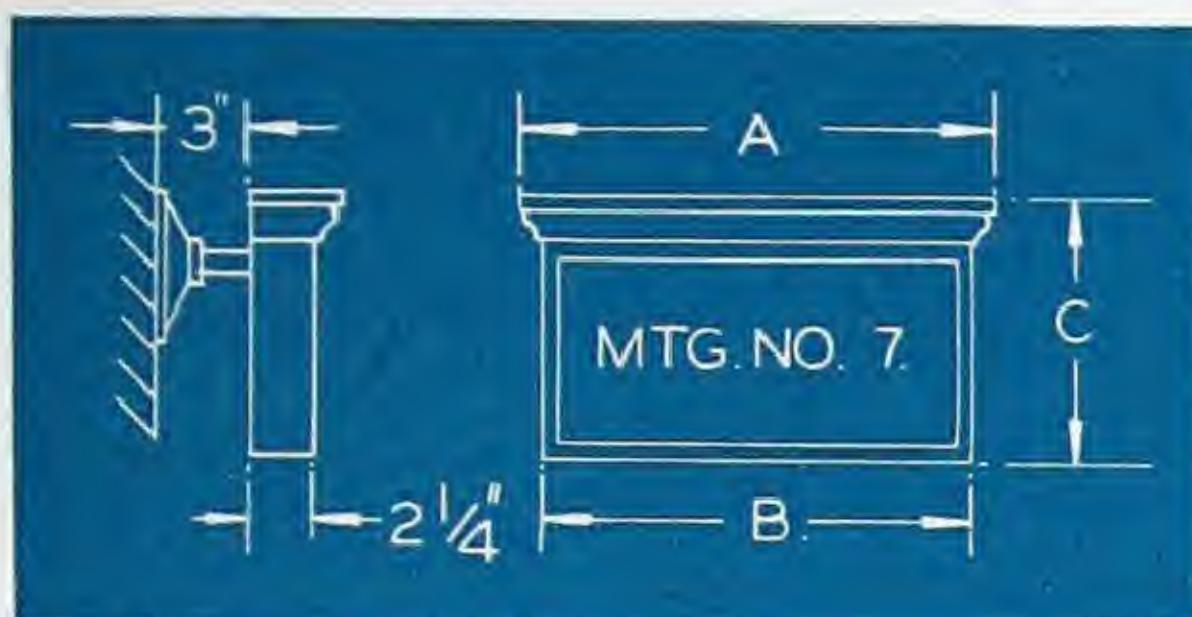
List Price, Each \$12.00

Lettering on Glass Panels supplied as ordered, without extra cost.

Directional Signs—Rolled Bronze

Rear Bracket Wall Type

Single Face Only



LIST PRICES

Cat. No. R6107—Single Face Bracket Wall Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4 x 12 1/4".
List Price, Each \$45.00

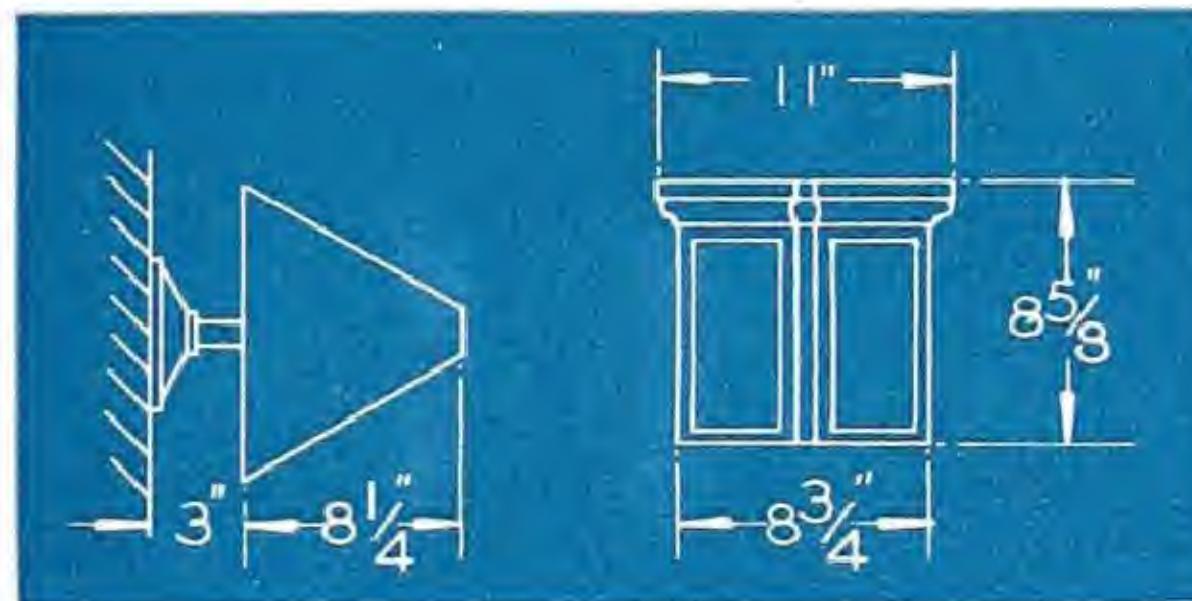
Cat. No. R8107—Single Face Bracket Wall Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 5/8"; Glass Opening, 7 1/8 x 13 1/2".
List Price, Each \$50.00

Cat. No. R9107—Single Face Wall Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening, 8 x 15".
List Price, Each \$55.00
 Approximate shipping weight, 12 lbs. each, boxed.

Extra or Replacing Glass Panels only (any marking). Shipping weight 10 lbs. each.
List Price, Each \$12.00
 Lettering on Glass Panels supplied as ordered, without extra cost.

Side Wall Triangular Type

Double Face Only



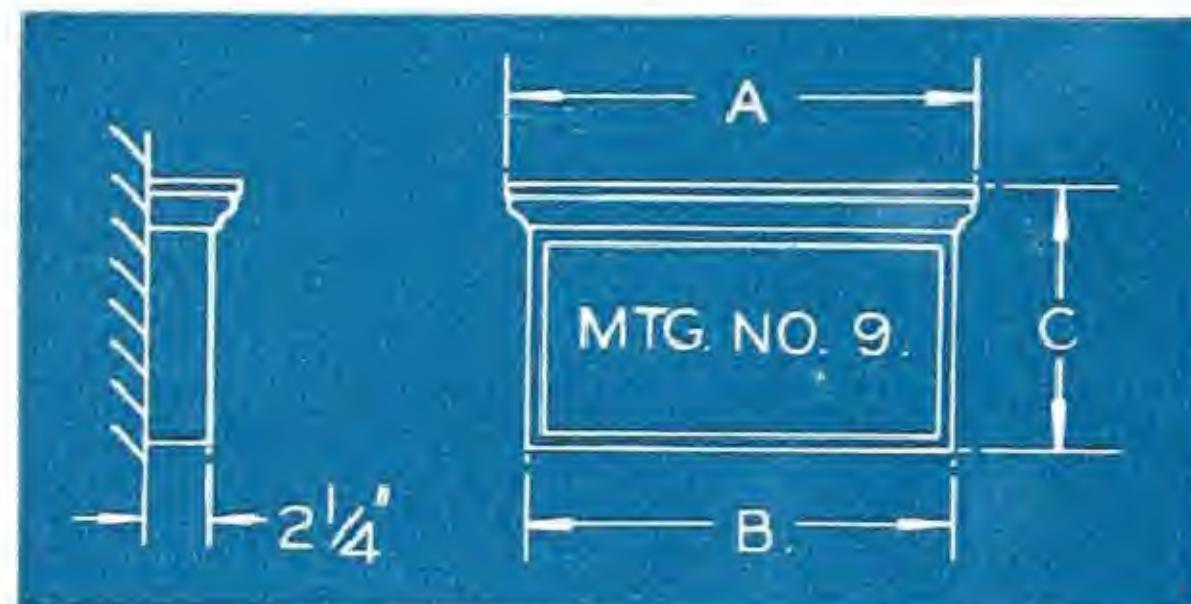
Cat. No. R3208—Double Face only. Bracket Sign. Complete with lamps and wiring. Dimensions: Glass Opening, 4 x 5 1/2".
List Price, Each \$60.00

Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each.
List Price, Each \$8.00
 Lettering on Glass Panels supplied as ordered, without extra cost.

The R8 Mounting has only a small glass panel, 4 x 5 1/2", which adapts it principally for aisle marking. It is a very attractive little sign and fulfills its purpose with good effect. Any glass marking may be specified and other uses may be made of it.

Directional Signs—Rolled Bronze

Flat Wall Mounting Type



LIST PRICES

Single Face Only

Cat. No. R6109—Single Face Flat Wall Sign. Complete with lamps and wiring. Dimensions: A, 15 3/4"; B, 14"; C, 8 3/4"; Glass Opening 5 1/4 x 12 1/4".

List Price, Each \$45.00

Cat. No. R8109—Single Face Flat Wall Sign. Complete with lamps and wiring. Dimensions: A, 17"; B, 15 1/4"; C, 10 1/8"; Glass Opening 7 1/8 x 13 1/2".

List Price, Each \$50.00

Cat. No. R9109—Single Face Flat Wall Sign. Complete with lamps and wiring. Dimensions: A, 18 1/2"; B, 16 3/4"; C, 11 1/2"; Glass Opening 8 x 15".

List Price, Each \$55.00

Approximate shipping weight, 12 lbs. each, boxed.

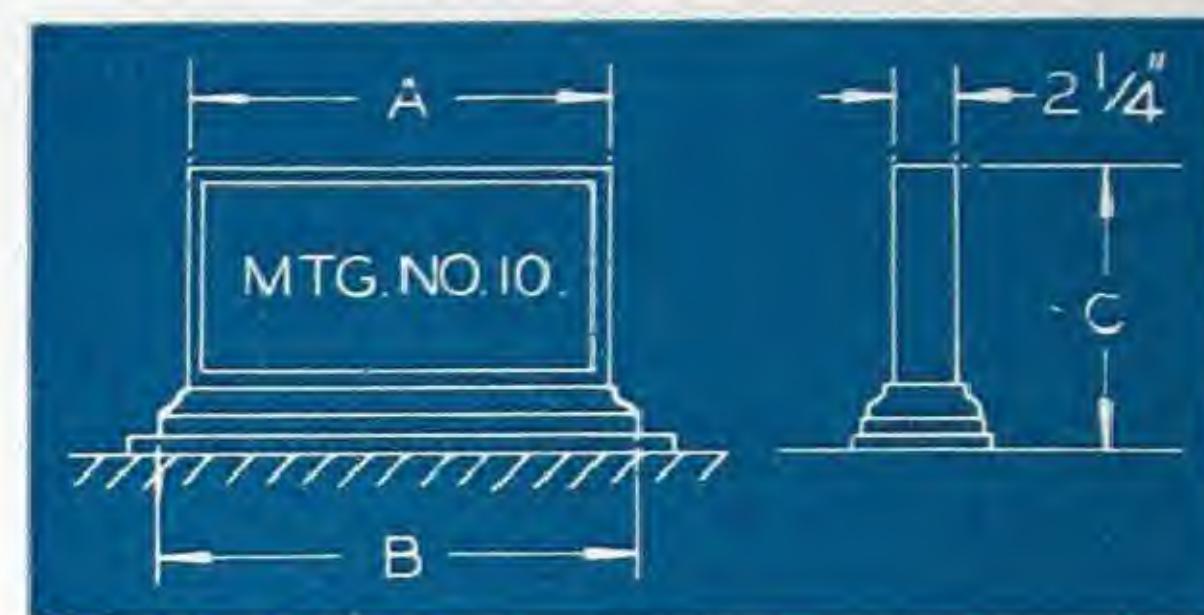
Extra or Replacing Glass Panels only (any marking). Shipping weight 10 lbs. each.

List Price, Each \$12.00

Lettering on Glass Panels supplied as ordered, without extra cost.

Any one of the various styles of directional signs shown on these several pages may be used for exit signs. Be careful, however, to order the correct size to allow for the 6-inch letter necessary for exit wording; i. e., those with glass panels measuring 7 1/8 x 13 1/2" or 8 x 15".

Base Mounting Type



LIST PRICES

Cat. No. R6110—Single Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 14"; B, 18 1/4"; C, 10 1/2"; Glass Opening, 5 1/4 x 12 1/4".

List Price, Each \$45.00

Cat. No. R6210—Double Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 14"; B, 18 1/4"; C, 10 1/2"; Glass Opening, 5 1/4 x 12 1/4".

List Price, Each \$50.00

Cat. No. R8110—Single Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 15 1/4"; B, 19 1/2"; C, 12 3/8"; Glass Opening, 7 1/8 x 13 1/2".

List Price, Each \$50.00

Cat. No. R8210—Double Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 15 1/4"; B, 19 1/2"; C, 12 3/8"; Glass Opening, 7 1/8 x 13 1/2".

List Price, Each \$55.00

Cat. No. R9110—Single Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 16 3/4"; B, 21"; C, 13 1/4"; Glass Opening, 8 x 15". List Price, Each \$55.00

Cat. No. R9210—Double Face Base Mounting Sign. Complete with lamps and wiring. Dimensions: A, 16 3/4"; B, 21"; C, 13 1/4"; Glass Opening, 8 x 15". List Price, Each \$60.00

Approximate shipping weight, 12 lbs. each, boxed.

Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each.

List Price, Each \$12.00

Lettering on Glass Panels supplied as ordered, without extra cost.

Directional Signs—Rolled and Cast Bronze

Special Hanging Type

Single Face Only



LIST PRICES

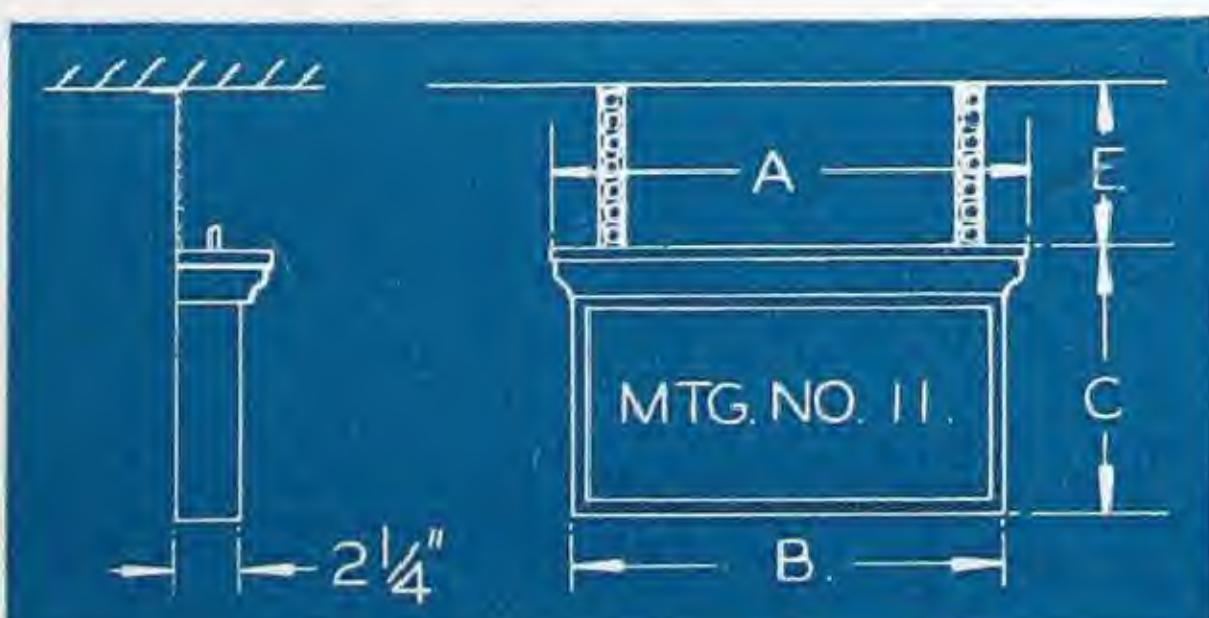
Cat. No. R6111—Single Face only. Hanging Sign. Complete with lamps and wiring. Chain Hangers optional. Dimensions: A, 15 $\frac{3}{4}$ "; B, 14"; C, 8 $\frac{3}{4}$ "; E, 6 $\frac{3}{4}$ ", 7 $\frac{3}{4}$ " or 8 $\frac{3}{4}$ "; Glass Opening, 5 $\frac{1}{4}$ x 12 $\frac{1}{4}$ ".

List Price, Each \$50.00

Approximate shipping weight, 12 lbs. each, boxed.

Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each. List Price, Each \$12.00

Lettering on Glass Panels supplied as ordered, without extra cost.



Cast Bronze

Single and Double Face - Many Styles



HERE is a complete line of cast bronze directional signs, of which the above illustration shows one type, awaiting your need. It is a beautiful, massively designed group, gracefully ornamental and suited to rich interiors.

There are various mountings to select from, one to fill every requirement. Glass markings are optional and blend beautifully. Full details and prices will be sent upon request. Be sure to mention Cast Bronze when writing.

These signs may also be used for exit signs for elaborate interiors. Certain designs of the Cast Bronze line can be mounted on a pedestal for floor use.

Exit Signs

THIS is an exceptionally well designed Flush Type Sign that is most widely used for exit markings. It has exceptional features that not only make it attractive,

Narrow 20-gauge galvanized steel box with two $\frac{1}{2}$ knocknuts in each end, top and bottom.

Bronze frame is adjustable to align it with horizontal before the box is set in plaster and outer bronze frame is never removed after plastering. Prevents cracking of plaster around box.

Front is entirely detachable and fastened on by pins in the lower edge and a screw rosette at top. Easy lamp changing without tools.



If other than a flush mounted exit sign is desired, any of the directional sign mountings may be ordered, providing that the glass is $7\frac{1}{8} \times 13\frac{1}{2}$ " or 8×15 " to allow for letters 6" high as required by underwriters.



but give it a practicability not found in others. The inside is sprayed aluminum finish and the lettering has unusual clarity without undue projection of light into the auditorium.



LIST PRICES

Cat. No. "NFE-6"—Flush Exit Sign with 6" letters (not numbered). Complete without lamps. **List Price, Each \$40.00**

Cat. No. "NFE-8"—Flush Exit Sign with 8" letters (not numbered). Complete without lamps. **List Price, Each \$60.00**

Cat. No. "NFE6N"—Flush Exit Sign with 6" letters and numbers. Complete without lamps. **List Price, Each \$60.00**

Cat. No. "NFE-8N"—Flush Exit Sign with 8" letters and numbers. Complete without lamps. **List Price, Each \$60.00**

Shipping weight, 18 lbs. each
Extra or Replacing Glass Panels only (any marking). Shipping weight, 10 lbs. each. **List Price, Each \$12.00**

NOTE: Lettering on glass panels supplied as ordered without extra cost. Standard is red, but we will supply green at no additional cost, if specified. Boxes and permanent frames can be shipped ahead, but we recommend complete shipment in cartons for economy and for customer's guidance.

Economic Type

For smaller jobs we make this art glass type, the frame front held with four screws directly to the box.

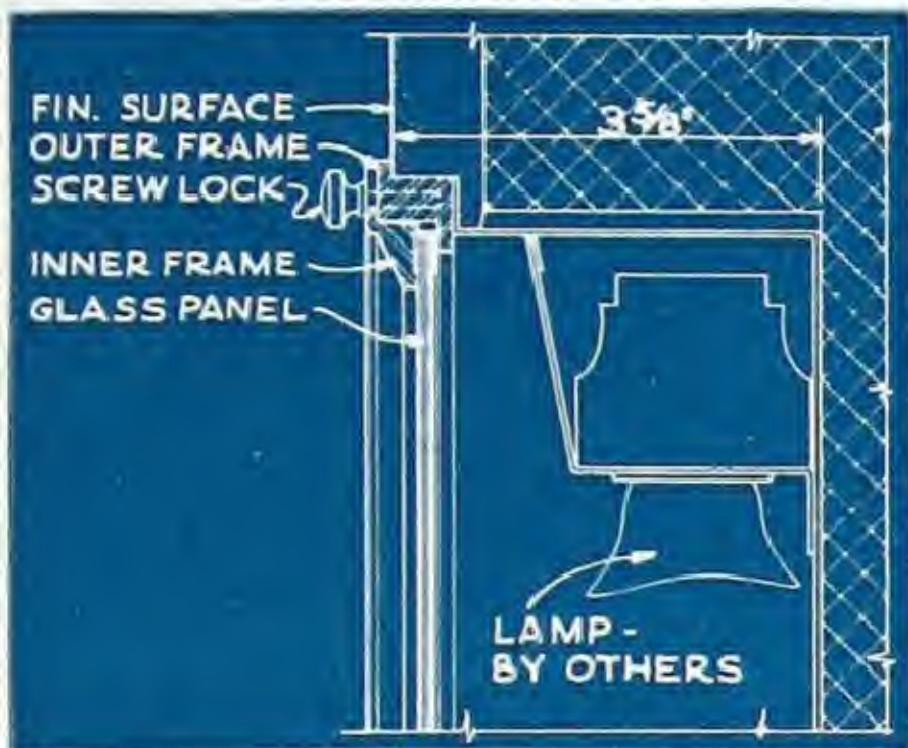
LIST PRICE

Cat. No. CEF6—Sheet metal box, frame and glass having 6" letters, complete with socket for one lamp (no lamp furnished). Box size $13\frac{7}{8}$ " long, 8" high, 4" deep. Glass frame $14\frac{1}{8} \times 8\frac{1}{4}$ ".

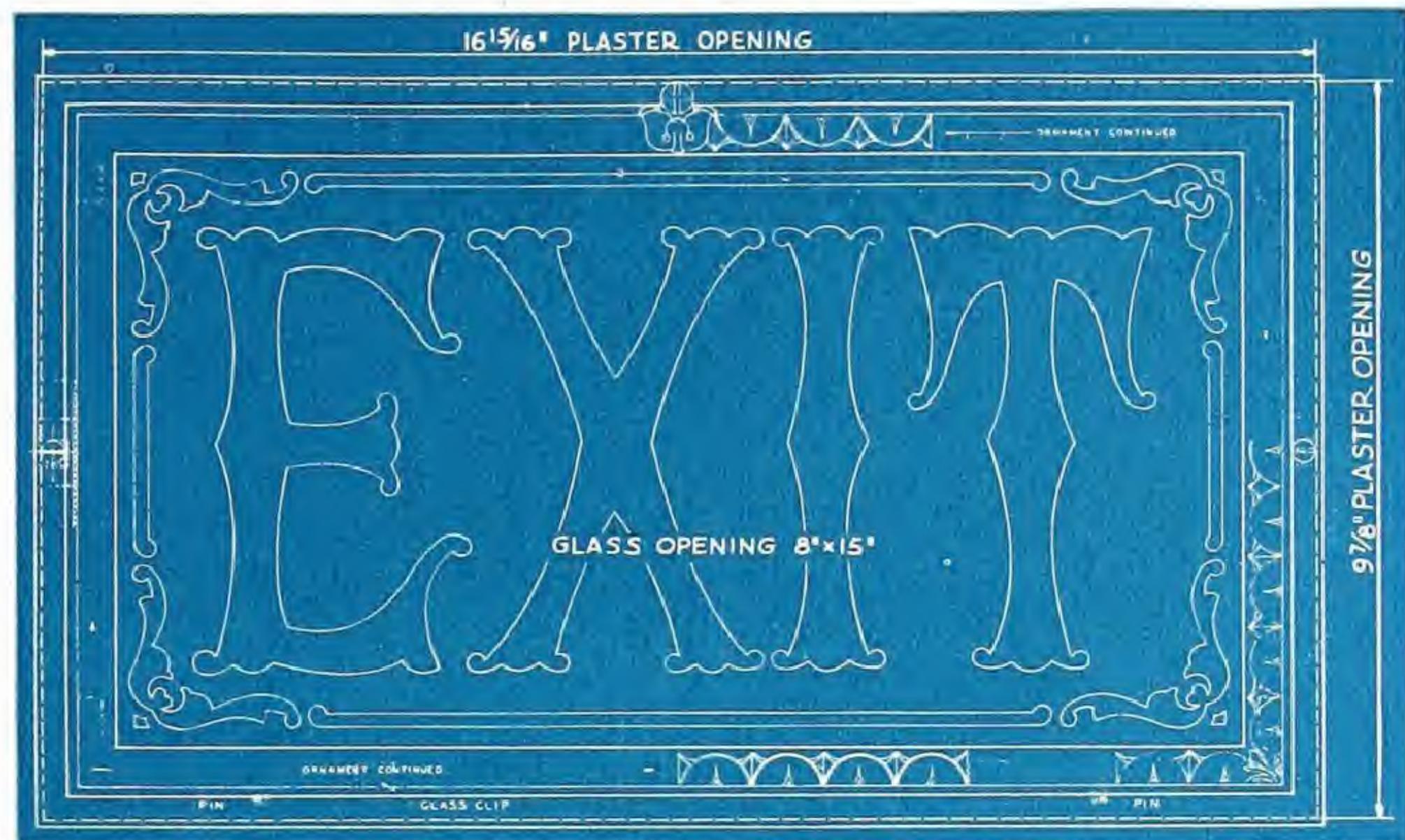
List Price, Each \$12.00



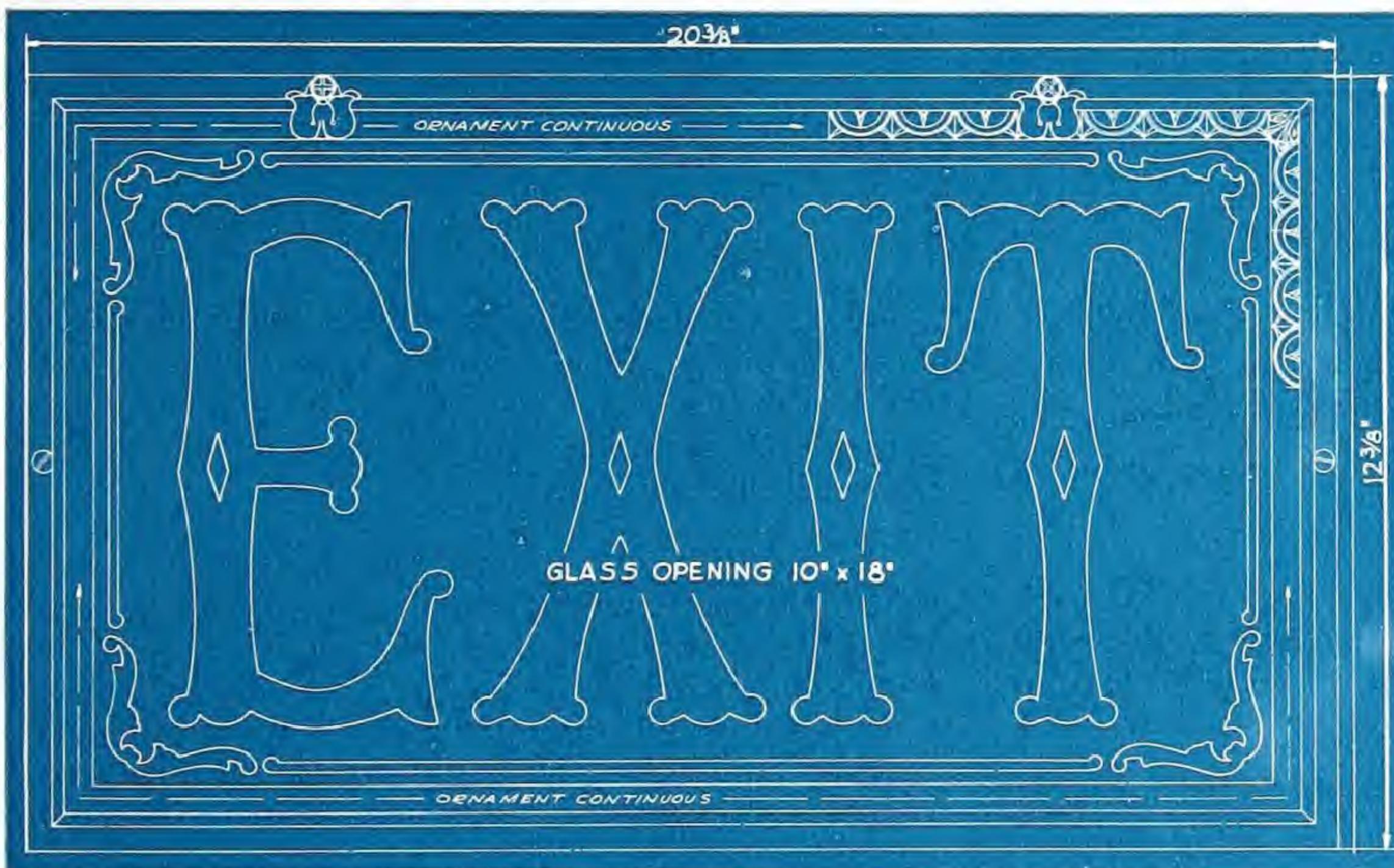
Exit Signs



Construction cross-section showing depth of box and frame construction. This is the same for all three signs shown on this page.

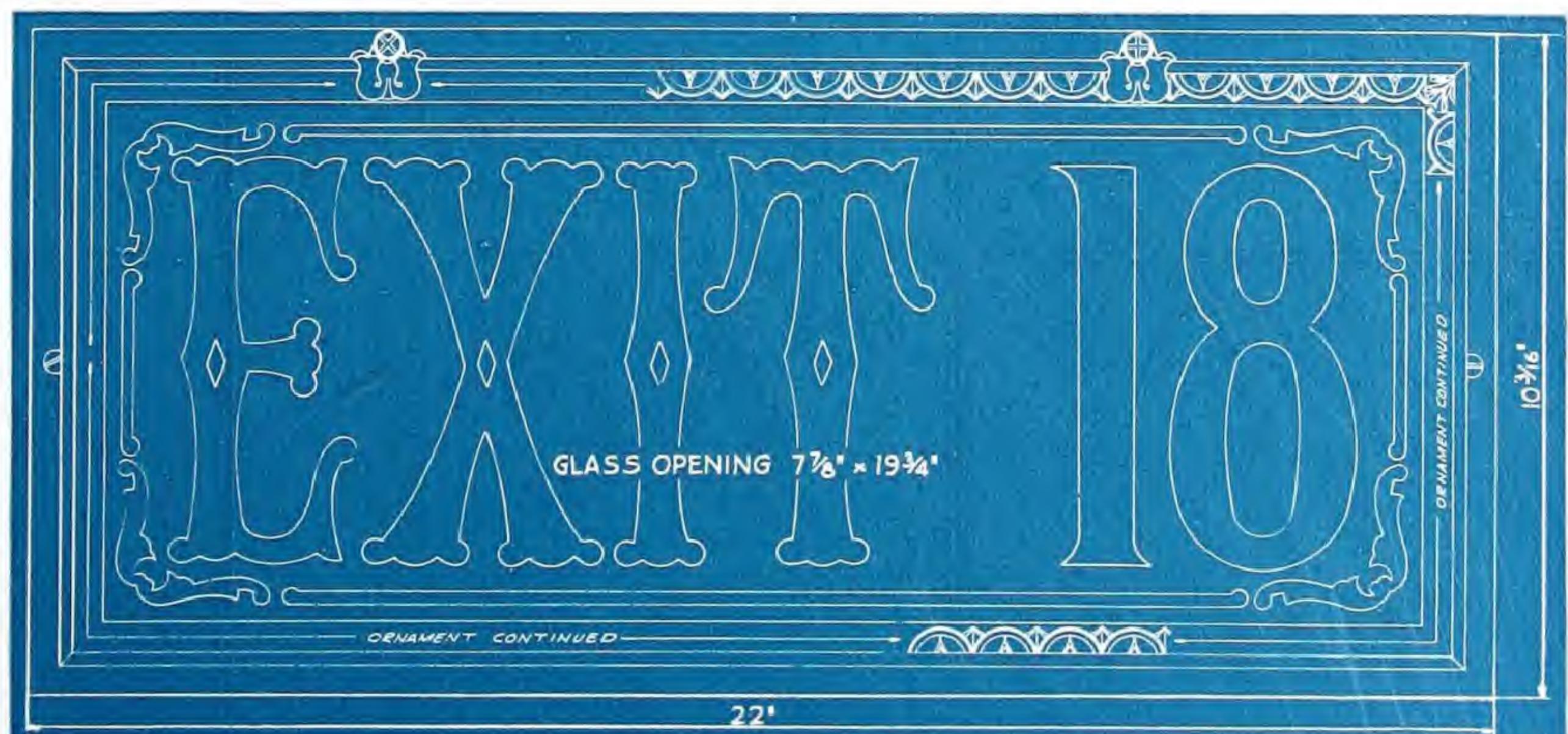


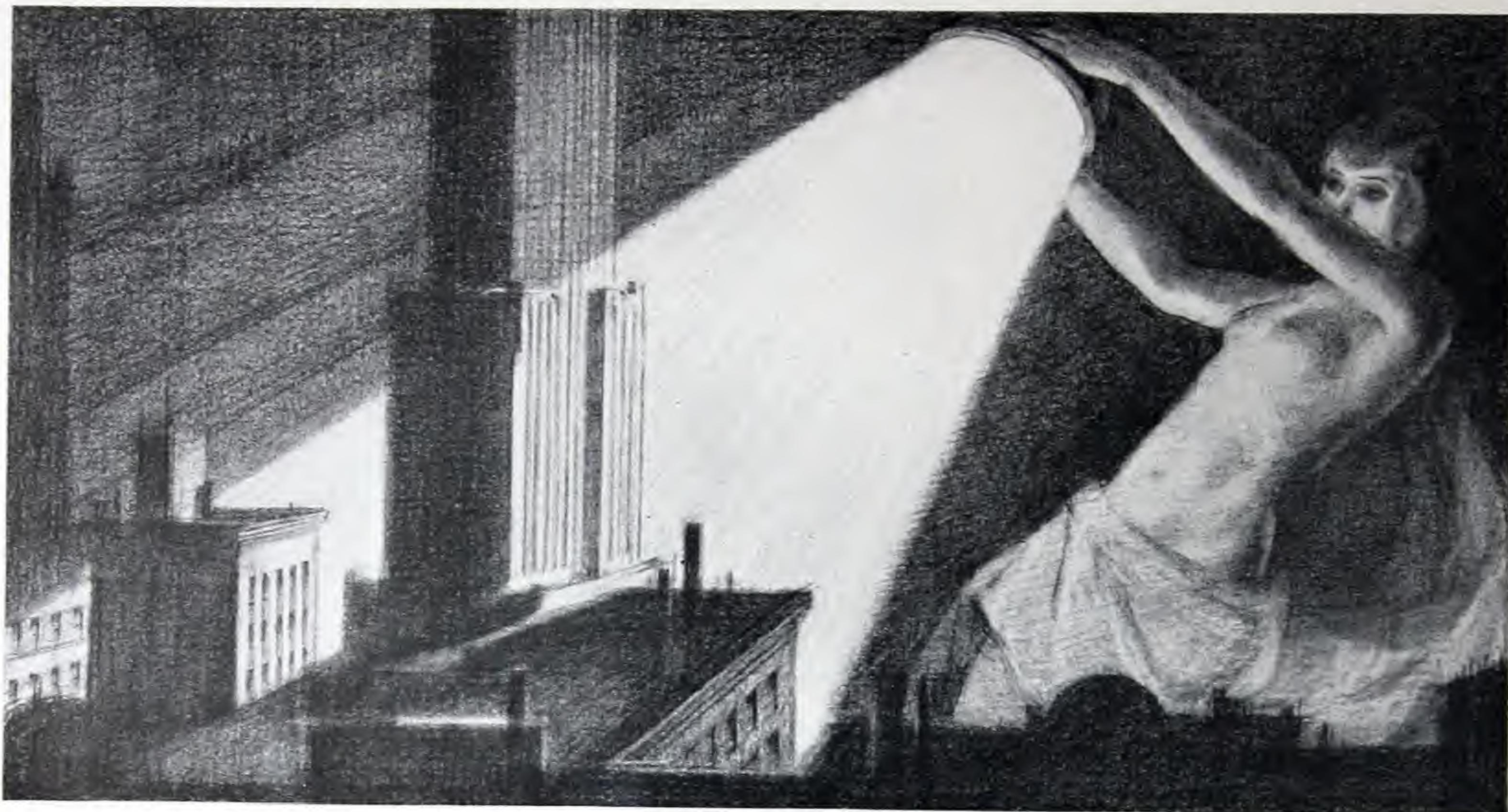
Illustrated above, Standard Flush Exit Sign—Type NFE6



Illustrated to the left, Standard Flush Exit Sign—Types NFE8 and NFE8N. (For NFE8N the number is put in a small square in the center of the word Exit.)

Illustrated to the right, Standard Flush Exit Sign Numbered — Type NFE6N.





In 1927 we said:

THE MAJOR Floodlight Unit has been built to answer the need for a floodlight that shall cost no more than others, but give more light for the current consumed, adjust more easily for all positions and uses, and be both stronger and lighter in weight than any other on the market.

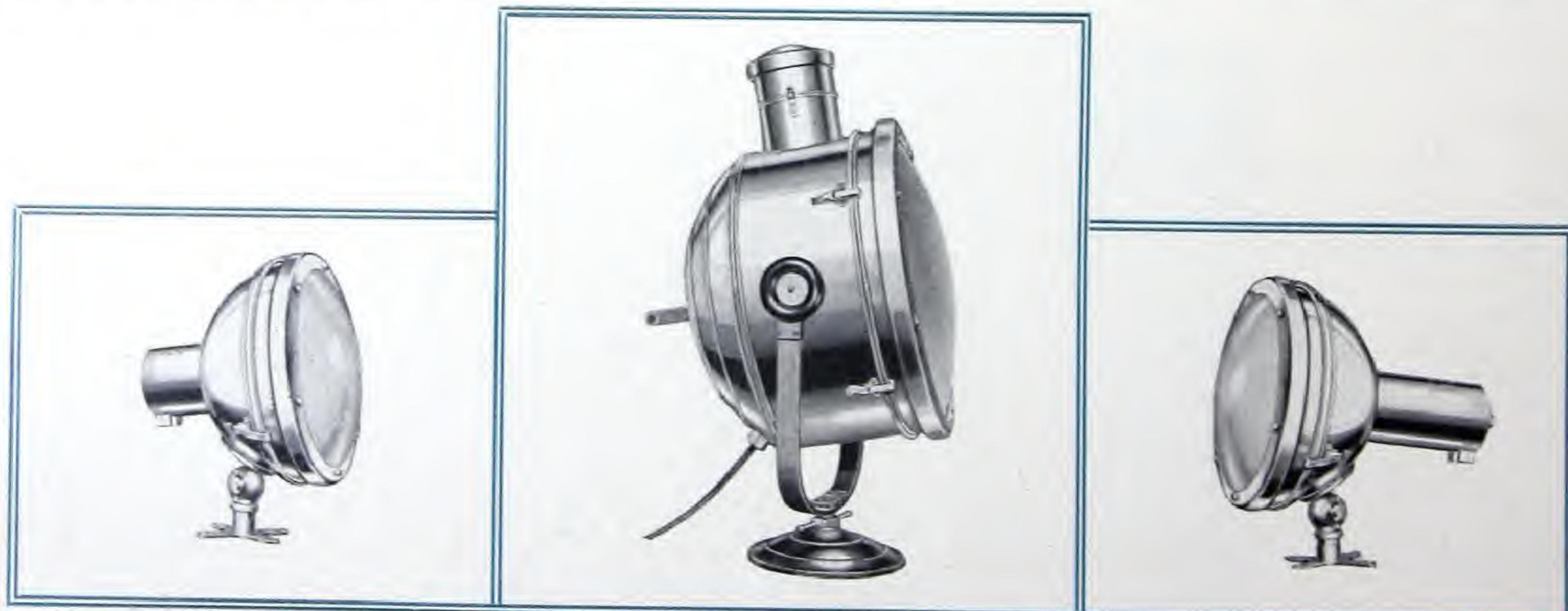
To accomplish these ends it was necessary to design an entirely new type of unit. The Major Unit is spun of sheet aluminum and is weatherproof.

"Its reflector is designed to use all of the available light and concentrate it in any desired area."

Today has proven:

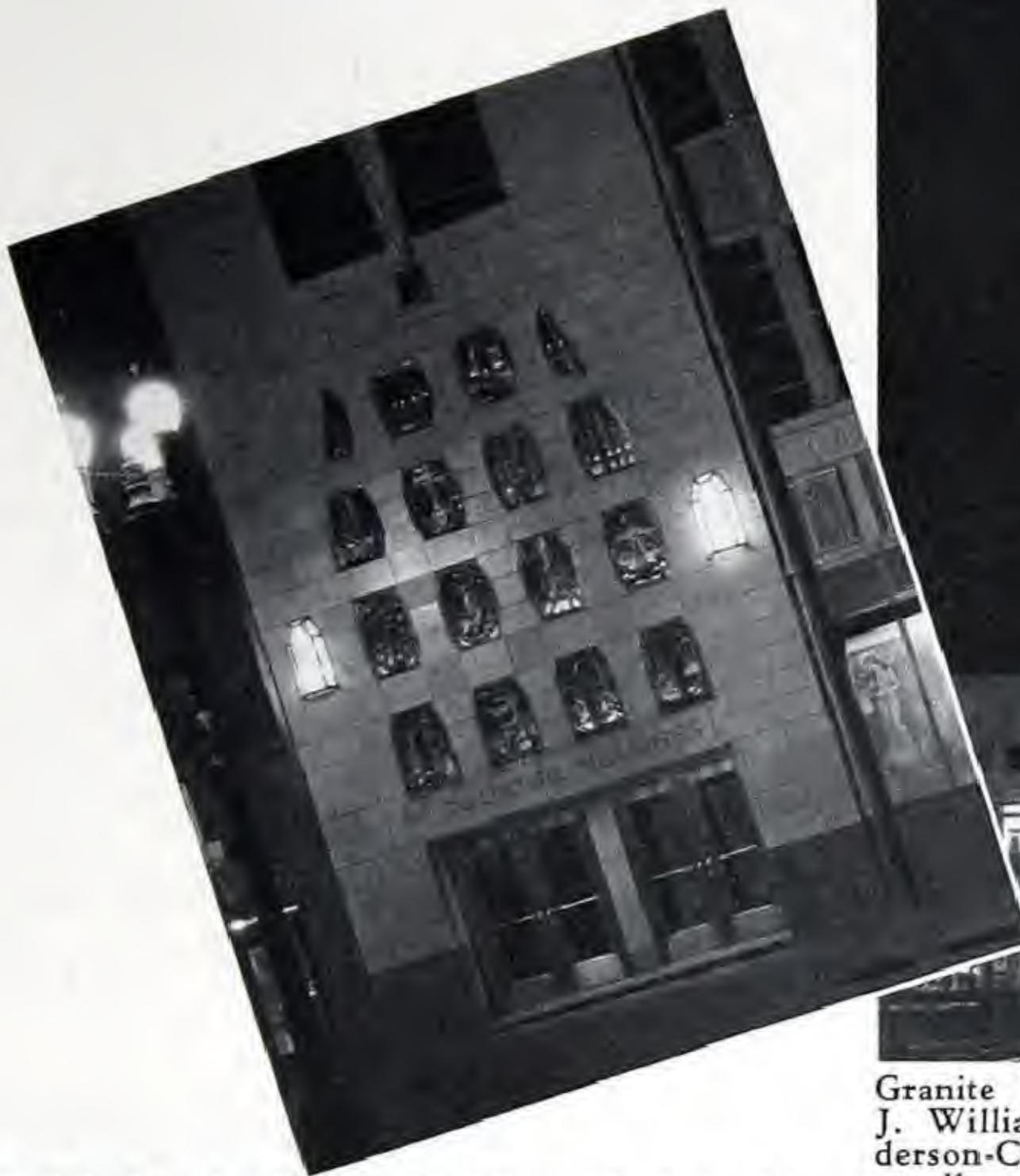
After four years of use under all possible conditions, we are still able to emphasize the basic features of the Major Floodlight. In this catalog we announce a new size for 1000 watt lamps which is described on later pages.

The new general improvement is the new front design. This is so unique in design that no gasket is needed between front and housing, yet these projectors are absolutely weatherproof. In service it eliminates all the difficulties and attains more advantages than any other type of front that we know of. This new front is also described in detail, yet must be seen to be appreciated.



MAJOR

Major from Coast to Coast



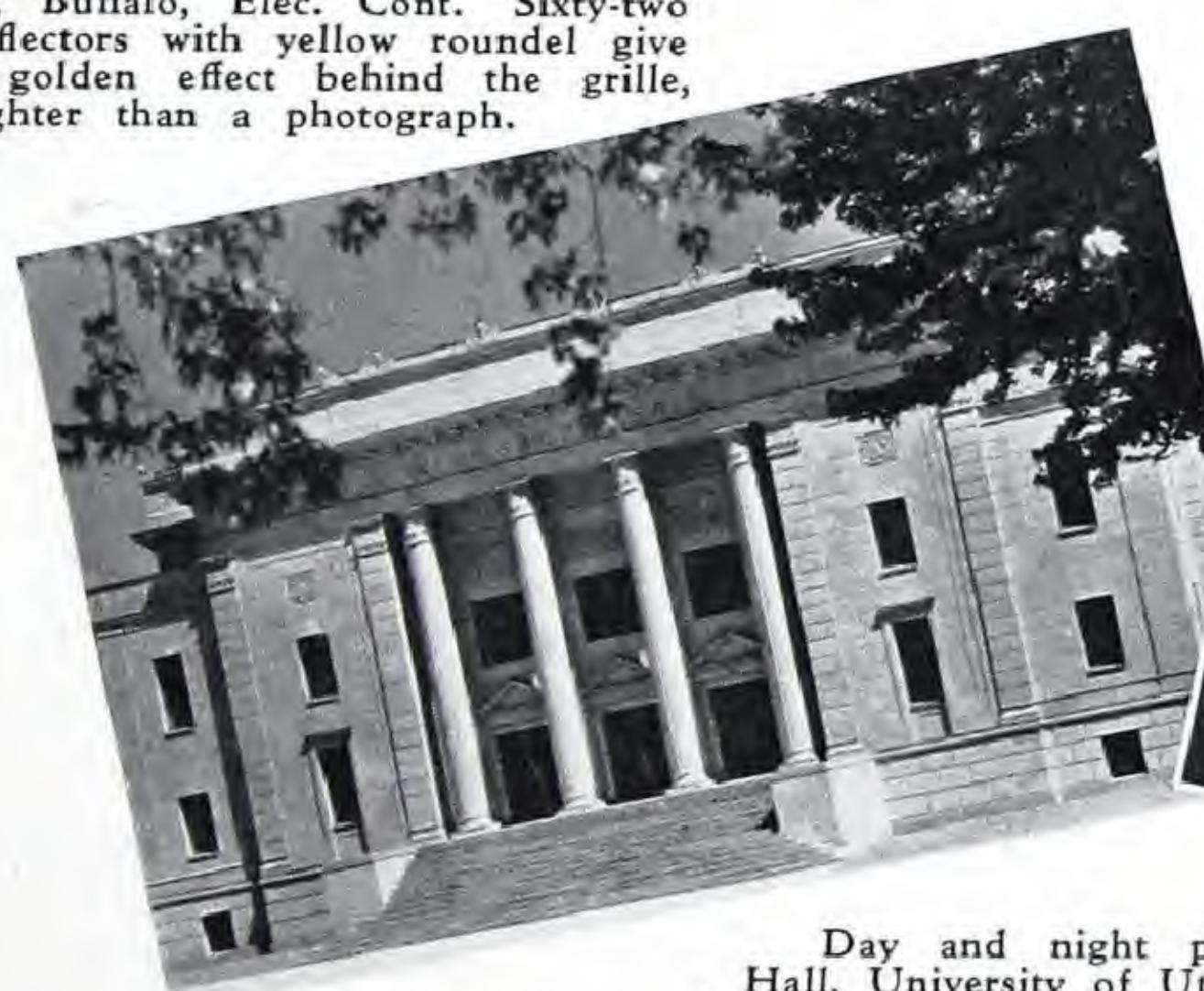
Buffalo Courier Express Building, Monks and Johnson, Boston, Arch. McCarthy Bros. and Ford Co., Buffalo, Elec. Cont. Sixty-two Major Reflectors with yellow roundel give beautiful golden effect behind the grille, much brighter than a photograph.



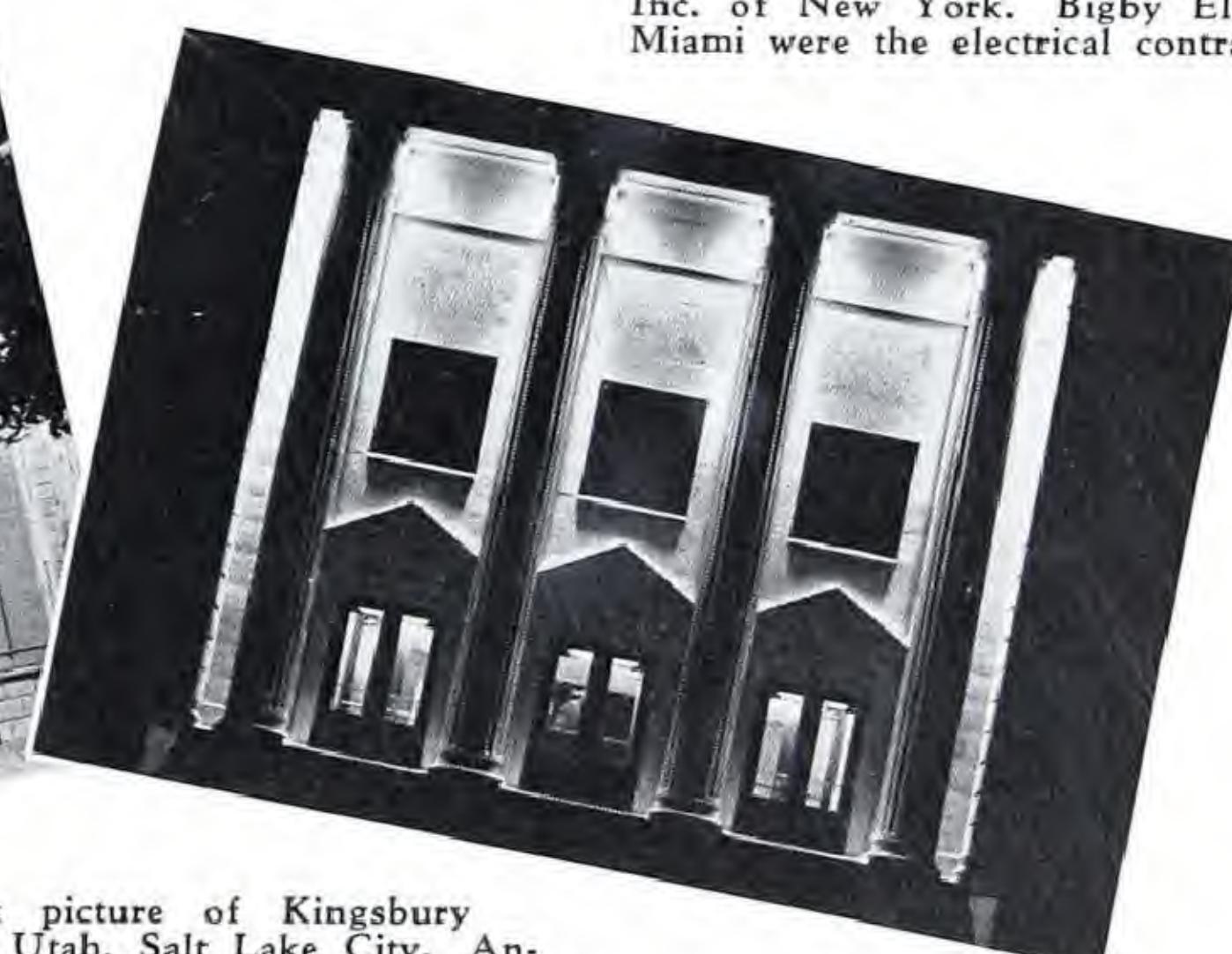
Granite Trust Co. Building, Quincy, Mass. J. Williams Beal Sons, Boston, Arch. Anderson-Coffey Co., Boston Elec. Cont. An excellent tower illumination with forty 300 watt floodlights.



This is a good example in Miami of flood-lighting from the canopy by Kress Stores, Inc. of New York. Bigby Electric Co. of Miami were the electrical contractors.



Day and night picture of Kingsbury Hall, University of Utah, Salt Lake City. Anderson and Young, Arch. Beautiful effect on area 32 ft. by 40 ft. with less than 3 ft. of depth, only four R-500 reflectors used. The stage in this building is also Major equipped.



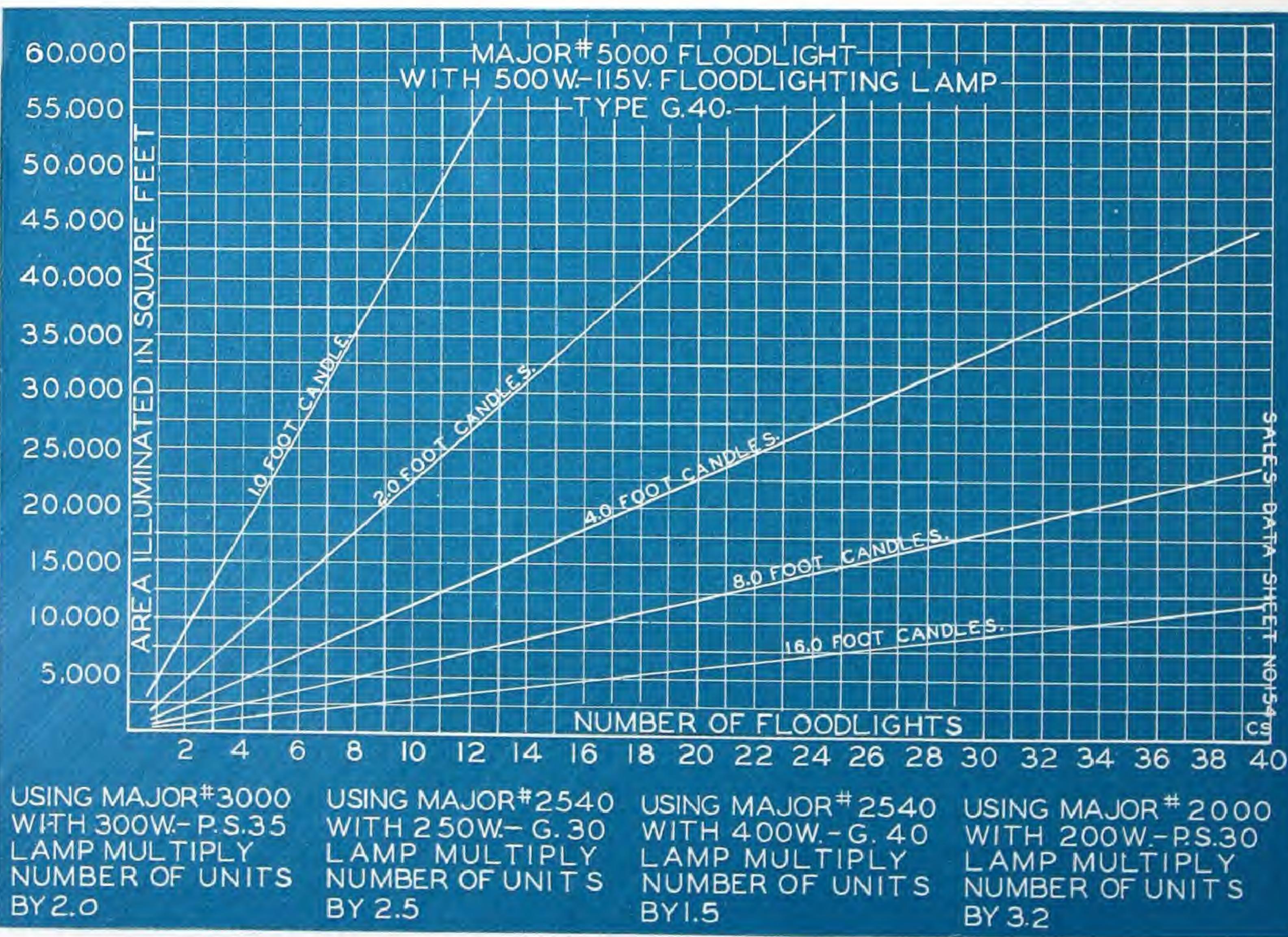
Blue Moon Hosiery Building, Bristol, Pa. L. B. Rothchild, Philadelphia, Arch. C. S. Rice Electric Co., Elec. Cont. A three-year-old lighting job when photographed. Thirty-two 500 watt floodlights used.

Suggestions on Floodlighting Layouts

VERAGE foot candle intensities for exterior architectural lighting vary from five foot candles to as high as fifty foot candles, depending on the size and location of the building, as well as its construction and surface material and the possible mounting places for lighting equipment. Our engineers have accurate information in regard to color and quantity of light for the most effective and economical lighting installations on buildings of various sizes in both large and small cities, so are capable of providing a recommendation for exactly the right type of lighting equipment for any installation, providing complete details are furnished. For most installations it is preferable, both for economy and beauty, to submit details to our engineering department for a complete layout. However, sufficient information is provided in this catalog so that many jobs may be de-

signed by any one familiar with lighting equipment.

Beam lumens are listed for each of the various projectors and average foot candle intensity on a surface may be roughly determined by multiplying the area by the desired average foot candle intensity and using the resultant figure as the total number of lumens desired. It is then easy to determine how many projectors of a given size will be required to provide this total number of lumens. In all cases the locations of the units will have a bearing on the number of lumens actually used on the desired area, as compared with the number of lumens lost either above, to the sides, or below, the area in question. Beam angles as well as diameters of beams at various distances for all of the projectors are given, so that it is not difficult to determine how much light may be used, and what portion must be lost.



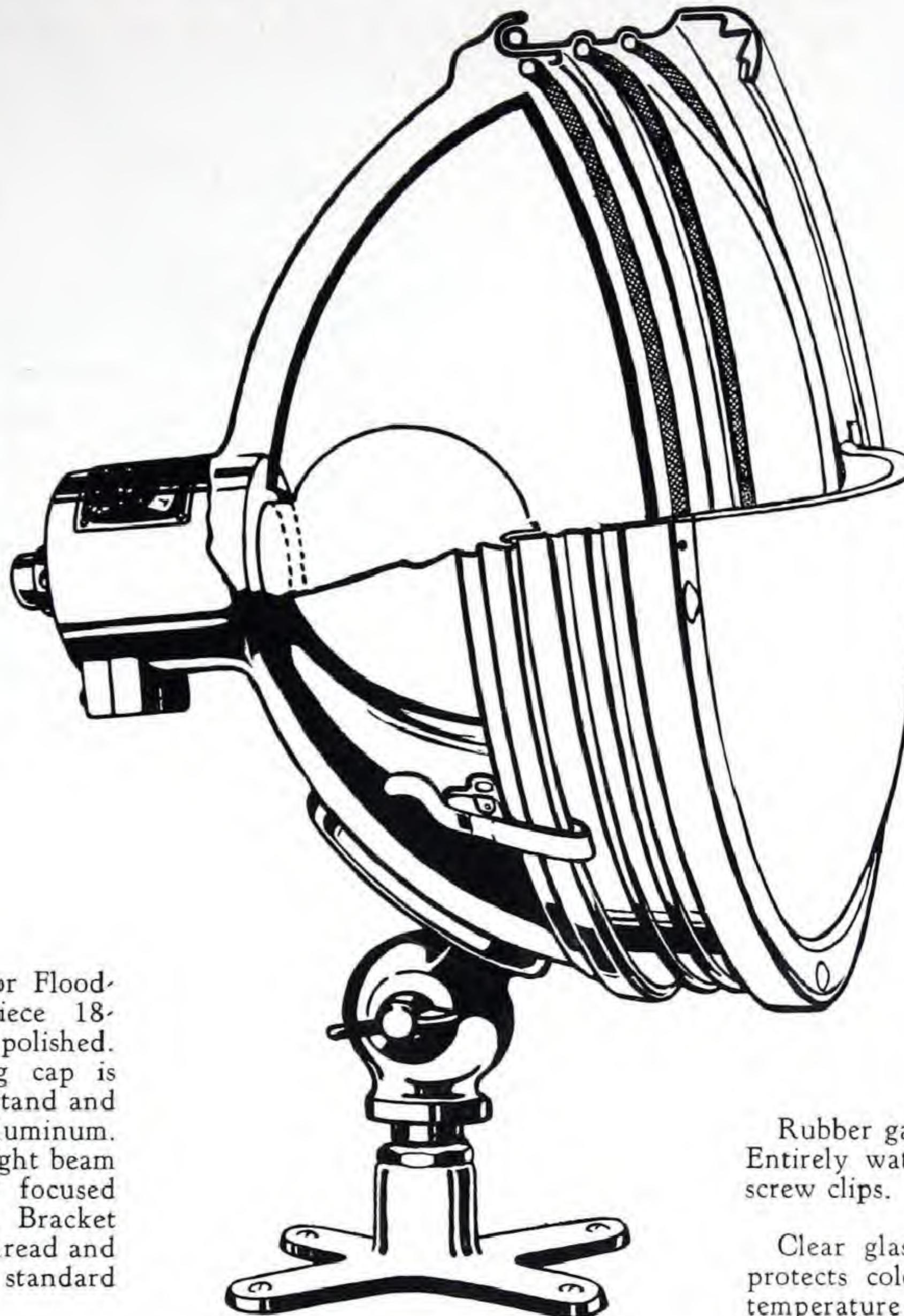
Features on 200 to 500 Watt Floodlights



A special parabolic heat-resisting spun glass reflector gives the Major unit nearly twice the reflecting power of other types. Bausch & Lomb, the government suppliers of navy searchlight reflectors, make it. The reflector is ground and polished and heavily silvered. It is backed with a heat-resisting compound that withstands heat and washing.

The housing of all Major Floodlights is made of one-piece 18-gauge aluminum, spun and polished. Cover and acorn focusing cap is aluminum also. Mounting stand and cable clamp are of cast aluminum. All other parts are brass. Light beam can be adjusted, set and focused without the use of tools. Bracket stud is standard $1/2$ " pipe thread and can be attached to any standard fitting.

The present day white floodlighting of buildings has been very effective as an advertising medium and particularly to identify the building among its neighbors at night, and to bring out unusual or interesting architectural effects. Future buildings, particularly large buildings, will consider floodlighting, or more particularly architectural lighting in their design—in other words, the architect will give attention to night



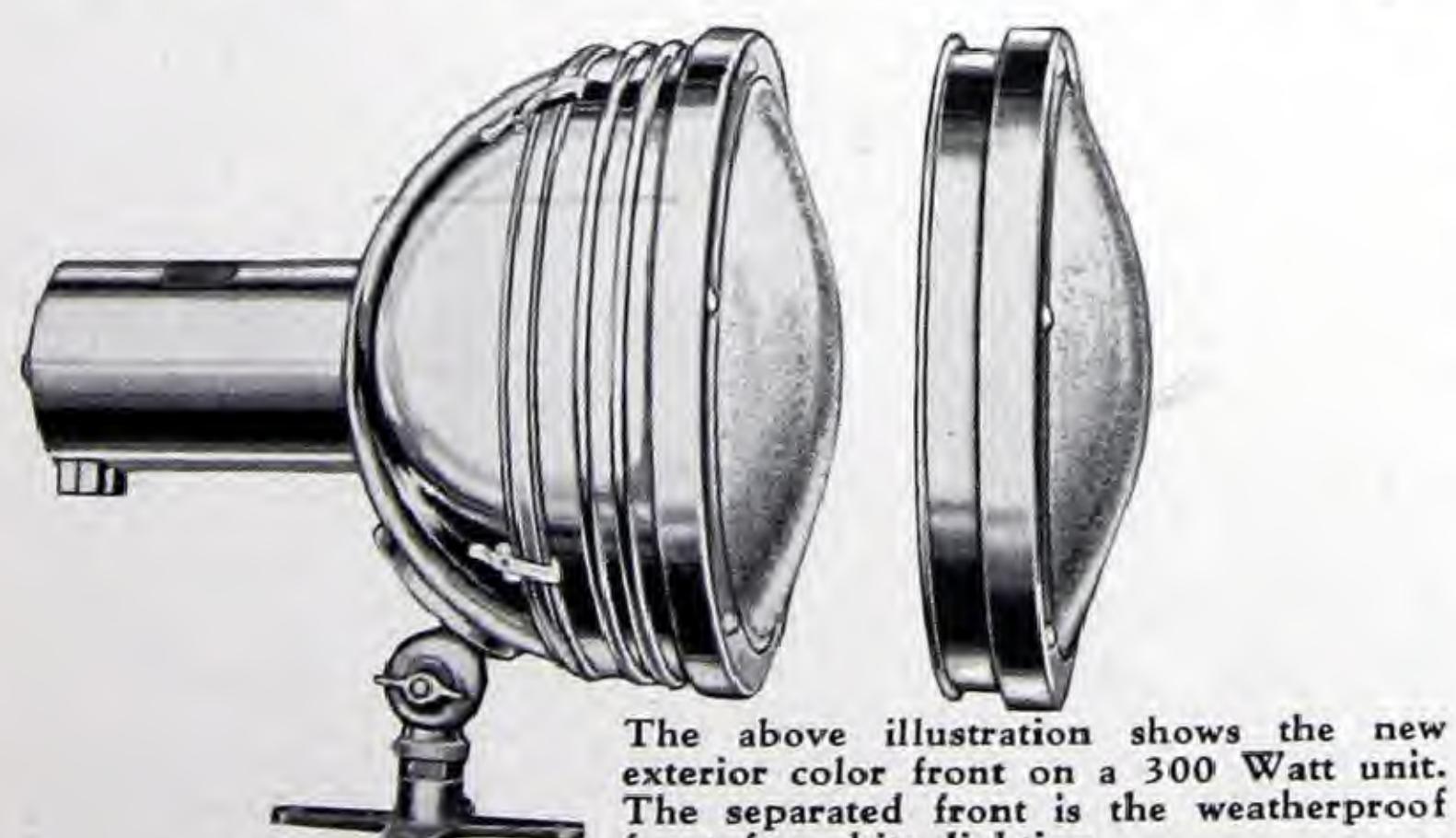
The new Major Front Construction is shown here in detail. It is very easy to put on and take off, does not stick or corrode and is positively weatherproof. There are no screw threads, just simple draw-tight clamps. The hood has a longer projection that prevents all moisture from getting inside, regardless of burning position.

Brass spring rings, asbestos cased, hold reflector and inner color glass in place.

Inner natural color glass of heat-resisting qualities provides rich color floodlighting without danger of breakage.

Rubber gasket between outer lens and ring. Entirely waterproof. Outer glass held by six screw clips.

Clear glass diffusing lens, slightly convex, protects color glass from sudden changes of temperature and other weather conditions.



The above illustration shows the new exterior color front on a 300 Watt unit. The separated front is the weatherproof front for white lighting.

lighting on the exterior of the building from floodlights or other concealed sources when the plans are drawn up. For this reason considerable attention is being given the new applications of color lighting by means of glass plaques provided for in new construction having light sources behind them to produce either mobile color lighting or lighting in one color. Also architects are being urged by building owners to use either reveals or terra cotta plaques for the purpose of special lighting to distinctly identify a building.

Flood Sign Lighting can be done effectively and economically with Major Floodlights.

Filling Stations Use Floodlights.—The brightest filling station gets the business every time. Adds to safety, too. Cheaply installed.

Parking Stands are becoming more and more popular and profitable. Floodlighting facilitates quick location of cars, reduces mistakes and protects cars.

Playgrounds should be lighted to safeguard children and make night playing more pleasant.

Interior Floodlighting of domes in public buildings, niches, columns, recesses, dance floors, ceilings and arches can all be artistically lighted in white or colors by skillfully used Major Floods.

Swimming Pools and Beaches lighted are a safe and delightful recreation at night.

Football Fields and Tennis Courts lighted give more opportunity for necessary practice games and speeds up training.

Airport Hangar and Airport Signs defies almost any general lighting except Floodlighting. Major Floodlighting will satisfy all requirements.

Floodlights

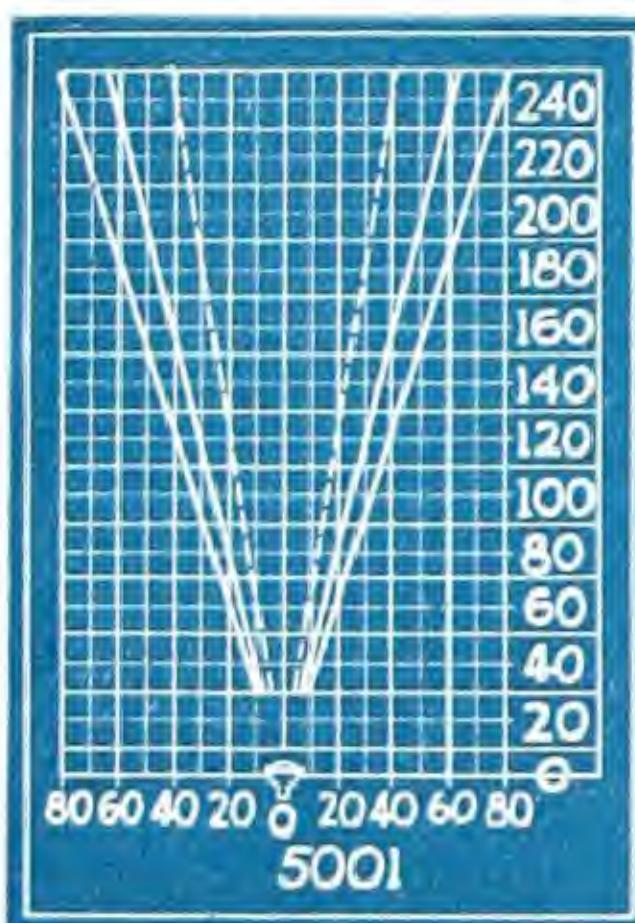
500 W. 300-500 W.

For G40
Floodlight Lamp



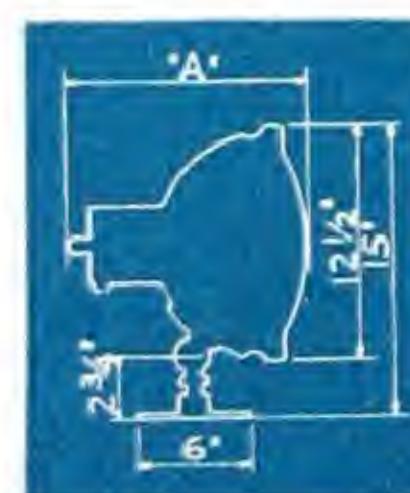
No. 5000

The unit uses 500 Watt G-40 Floodlighting Lamp. Beam Lumens 2960. Beam Angle 18°. Not recommended for burning with base of lamp within 45 degrees of vertically, base up. When lamp must be burned in this position, use No. 2000 or No. 3000 or No. 5010.



500 Watt

This Major Floodlight is adaptable for both long and short throws, as it has a medium beam angle. We recommend this type particularly for color floodlighting when equipped with a Major Interior Color Front or the new Major Exterior Color Two-Glass Front explained in detail on the next page.



LIST PRICE—500 Watt

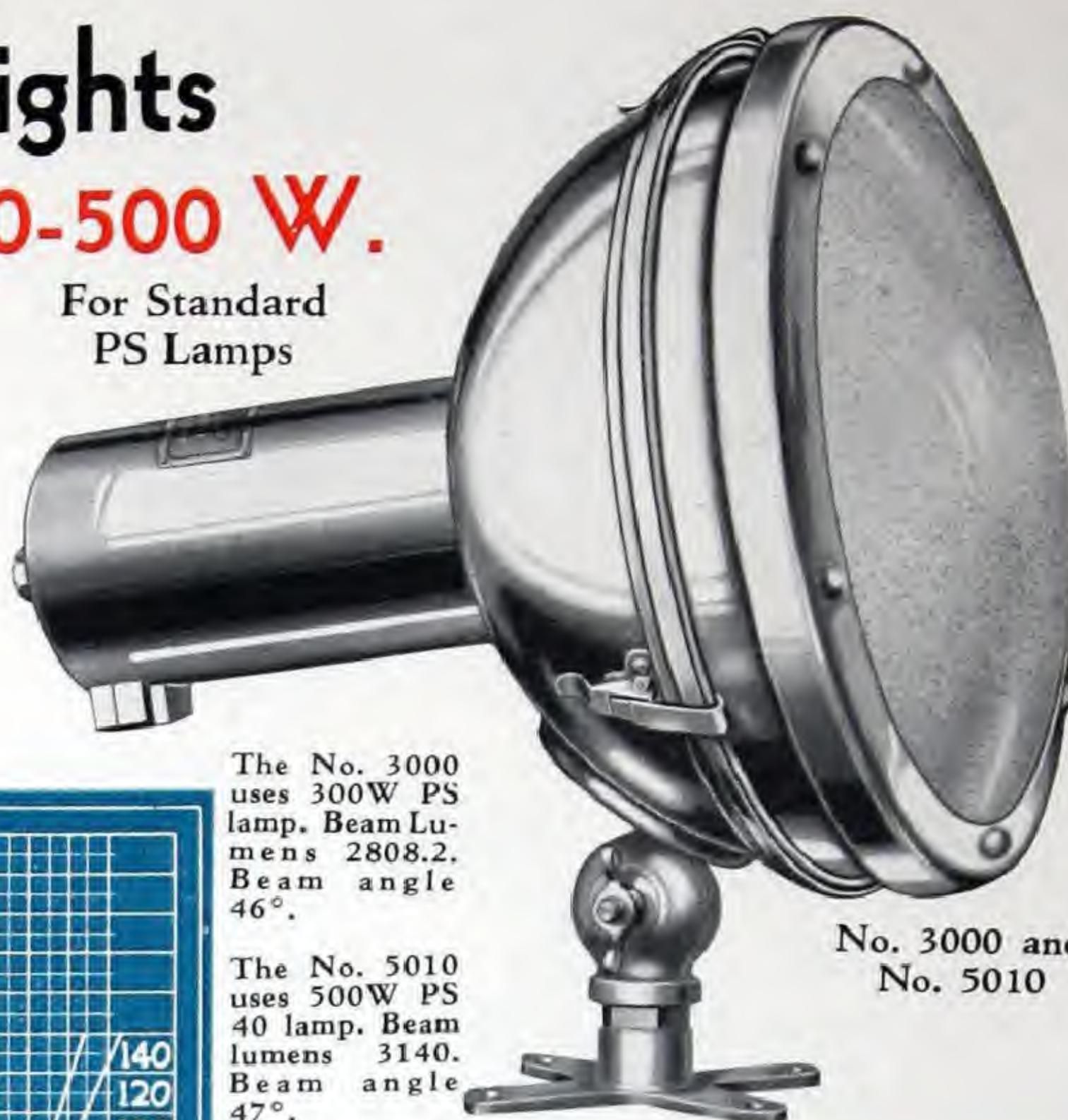
For G40 Floodlight Lamp

Standard Major Unit, complete with crowfoot base for mounting, Bausch & Lomb ground and polished mirror reflector, specially designed socket and Corning heat-resisting, clear diffusing glass front with holder. To be used with mogul base G-40—500 Watt Floodlighting Lamp (not included). This type is recommended when the greatest volume of light is desired. Dimensions with rounded front, A, 12". Exterior color type dimension, A, 13 3/4". For color lenses, see page 86.

Cat. No. 5000—Interior Use, White.....List Price, \$32.00
Cat. No. 5001—Exterior Use, White.....List Price, \$32.00
Cat. No. 5002—Interior Use, Color.....List Price, \$32.00
Cat. No. 5003—Exterior Use, Color.....List Price, \$40.00

Shipping weight, 16 lbs. each

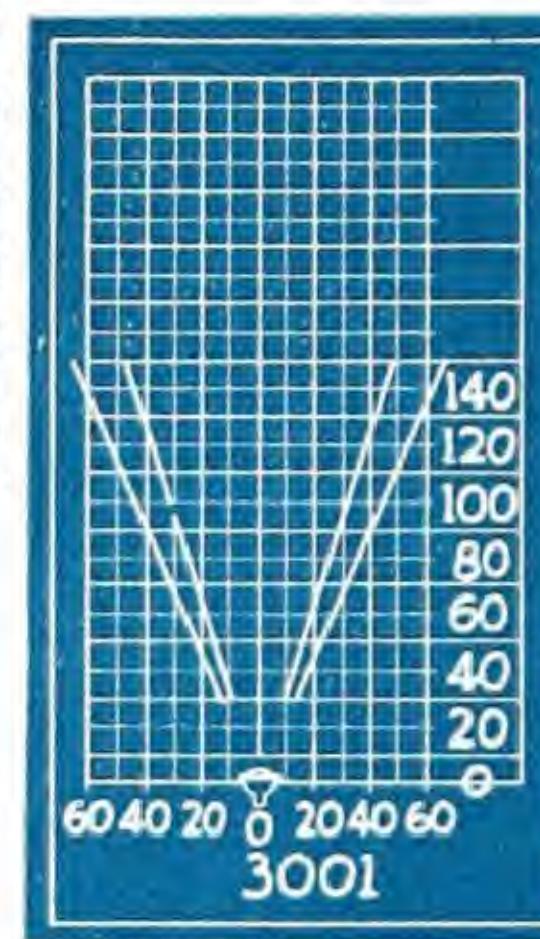
For Standard
PS Lamps



No. 3000 and
No. 5010

The No. 3000 uses 300W PS lamp. Beam Lumens 2808.2. Beam angle 46°.

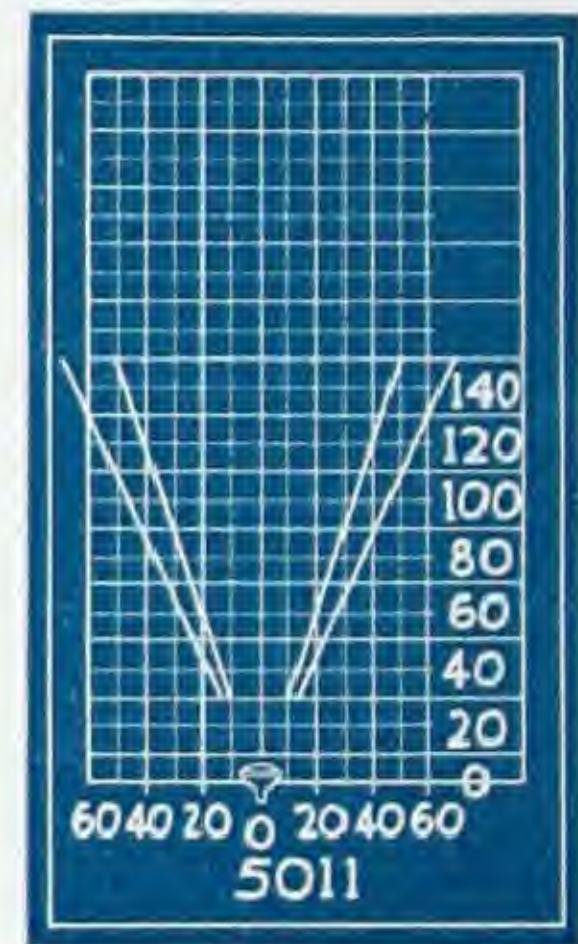
The No. 5010 uses 500W PS 40 lamp. Beam lumens 3140. Beam angle 47°.



All figures on these charts are number of feet. The narrow lines are minimum beam and the wider ones the maximum beam. The beam angles for both non-diffusing and diffusing lenses are the same on 3001 and 5011.

300 Watt

Many lighting engineers favor this Major 300 Watt Floodlight for its especial qualities. It is a wide beam angle unit for general exterior floodlighting as well as some interior uses when it is necessary to place the projector fairly close to the object or area to be lighted.



LIST PRICE—300 Watt

For PS35 Standard Lamp

Standard Major Unit complete with crowfoot base for mounting, Bausch & Lomb ground and polished mirror reflector, specially designed socket and Corning heat-resisting clear diffusing glass front with holder. To be used with mogul base PS35—300 Watt Floodlighting Lamp (not included). This type is recommended when unit is to be used at an angle of 45 degrees below the horizontal. Dimensions with rounded front, A, 15 1/4"; Exterior color type dimension: A, 16 1/4". For color lenses, see page 86.

Cat. No. 3000—Interior Use, White.....List Price, \$32.00
Cat. No. 3001—Exterior Use, White.....List Price, \$32.00
Cat. No. 3002—Interior Use, Color.....List Price, \$32.00
Cat. No. 3003—Exterior Use, Color.....List Price, \$40.00

Shipping weight, 16 lbs. each

LIST PRICE—500 Watt

For PS40 Standard Lamp

Standard Major Unit complete with crowfoot base for mounting, Bausch & Lomb ground and polished mirror reflector, specially designed socket and Corning heat-resisting clear diffusing glass front with holder. To be used with mogul base PS40—500 watt standard lamp (not included). This type is recommended when unit is to be used at an angle of 45 degrees below the horizontal. Dimensions with rounded front: A, 15 1/4". Exterior color type dimension: A, 16 1/4". For color lenses, see page 86.

Cat. No. 5010—Interior Use, White.....List Price, \$32.00
Cat. No. 5011—Exterior Use, White.....List Price, \$32.00
Cat. No. 5012—Interior Use, Color.....List Price, \$32.00
Cat. No. 5013—Exterior Use, Color.....List Price, \$40.00

Floodlights

200 W.

For Standard
PS30 Lamp



No. 2000

This unit uses a 200 Watt
PS30 lamp. Beam Lu-
mens 1204.4. Beam An-
gle 42°.

250-400 W.

For G30 Floodlight
Lamps (med. base)

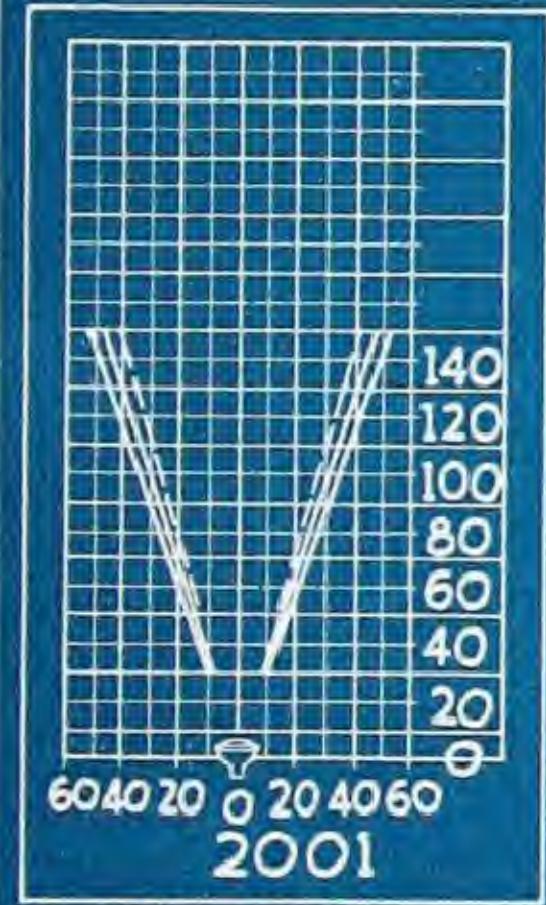
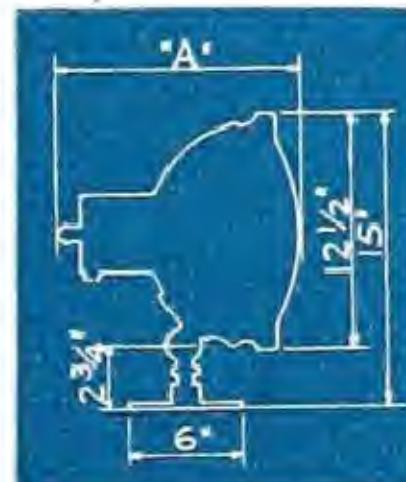


No. 2540

This unit uses a 250 or
400W G-30 Floodlight-
ing Lamp (medium base).
Beam lumens 3459.6.
Beam angle 16°. Not
recommended for burning
with base of lamp within
45 degrees of vertically
baseup. When lamp must
be burned in this posi-
tion, use No. 2000 or
No. 3000 or No. 5010.

200 Watt

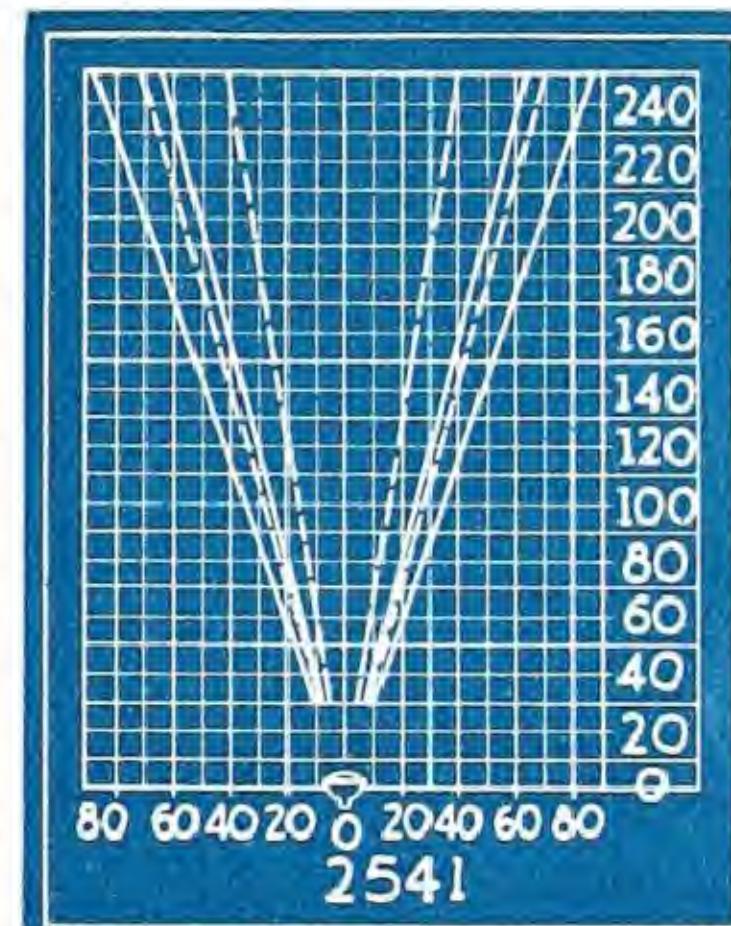
This Major Floodlight is a broad beam unit for comparatively short throws, especially the lighting of interior and exterior niches, column bases and other architectural details. A standard 200 Watt PS30 lamp is used and makes this a good general unit wherever this amount of light is desired. The Major Floodlights are all designed to put into the projected beam all the light the lamp is capable of. This type, as well as the other types shown, are the product of the best of modern engineering.



All figures on the above chart are numbers of feet. The dotted line indicates the non-diffusing lens and the solid line the diffusing lens. Naturally the narrow ones are minimum beam and the wider ones the maximum beam. Where there is but one dotted line, the next solid line is to be taken as the maximum.

250 Watt - 400 Watt

This Major all-aluminum Projector used with a 400 Watt G-30 Floodlighting Lamp gives more light and controls it more accurately than most 500 Watt Projectors on the market. It is a floodlight having a narrow beam angle especially effective for long throws in general area lighting. Streak lighting and set-back building lighting can be best accomplished with this Major unit. If less lighting is desired a 250 Watt G-30 lamp may be used efficiently in this floodlight.



All figures on the above chart are numbers of feet. The dotted line indicates the non-diffusing lens and the solid line the diffusing lens. Naturally the narrow ones are minimum beam and the wider ones the maximum beam. Where there is but one dotted line, the next solid line is to be taken as the maximum. Where there are no dotted lines the beam angles for both lenses are the same.

LIST PRICES

Standard Major Unit, complete with crowfoot base for mounting, Bausch & Lomb ground and polished mirror reflector, specially designed socket and Corning clear heat-resisting convex shaped diffusing glass front with holder. To be used with P.S. 200 Watt Lamp (not included). This type is recommended when unit is to be used tipped down at an angle of more than 45 degrees below the horizontal. Dimension: A, 13 3/4". Exterior color type dimensions: A, 15 1/4". For color lenses, see page 86.

Cat. No. 2000—Interior Use, White.....List Price, \$32.00
Cat. No. 2001—Exterior Use, White.....List Price, \$32.00
Cat. No. 2002—Interior Use, Color.....List Price, \$32.00
Cat. No. 2003—Exterior Use, Color.....List Price, \$40.00

Shipping weight, 15 lbs. each

Standard Major Unit complete with crowfoot base for mounting, Bausch & Lomb ground and polished mirror reflector, specially designed socket and Corning clear heat-resisting, convex shaped, diffusing glass front with holder. To be used with G-30 250-400 Watt Floodlighting Lamp (not included). Dimension: A, 12". Exterior color type dimension: A, 13 1/4". For color lenses, see page 86.

Cat. No. 2540—Interior Use, White.....List Price, \$32.00
Cat. No. 2541—Exterior Use, White.....List Price, \$32.00
Cat. No. 2542—Interior Use, Color.....List Price, \$32.00
Cat. No. 2543—Exterior Use, Color.....List Price, \$40.00

Shipping weight, 15 lbs. each

Floodlight Mountings

HERE are a number of mountings available for Major Floodlights. The fitting at the base is a standard $1/2$ " pipe thread and permits a practical support for any purpose. When other than standard mounting equipment is ordered with the Floodlight a deduction is made for the standard equipment replaced and an addition for the other equipment used.

See Opposite Page for List Prices



Pipe Fitting

Standard pipe tee fitting that makes an excellent mounting. Major mounting stud fits $1/2$ " pipe thread.



Crowfoot

This is the standard mounting furnished and is for permanent work and also temporary floodlighting.



Tall Portable

In garages and other places where a head-high portable unit is desired, the above equipment is available. Non-adjustable for height.

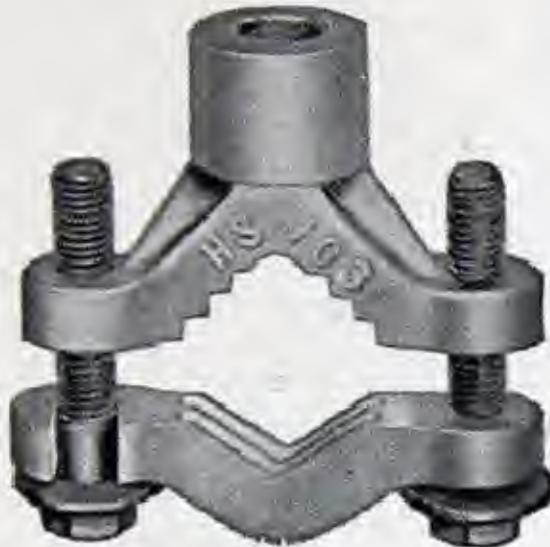


Pipe Clamp Mounting

Is used for universal adjustment, temporary mounting or for conditions where pipe fittings are not desirable. This is a separate fitting and is made in two sizes.

Floodlight Parts

200 Watt to 500 Watt



Standard Pipe Clamp.
For supporting Floodlight on pipe or other round surface. Clamp capacity 1" to 2".

Cat. No. 32
List Price.....Each \$4.00



Weatherproof Cover,
aluminum one piece, holds glass front.

Cat. No. 2W
List Price.....\$6.00



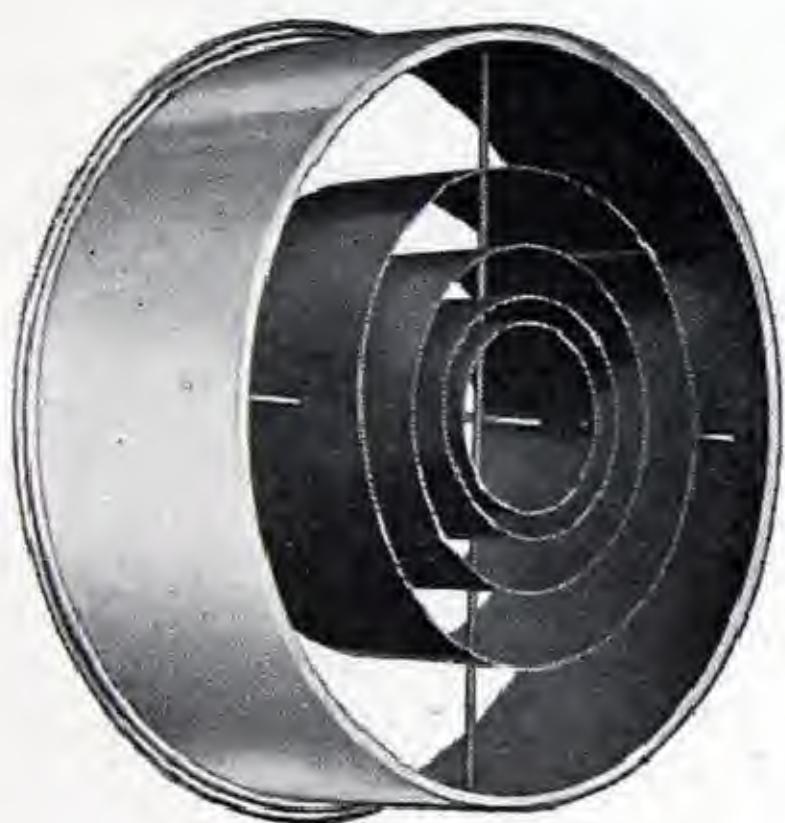
New Weatherproof Front Cover. Aluminum one-piece holds glass front and inner color glass. Ring only.

Cat. No. 2-EW
List Price.....\$8.00



Reflector. Bausch & Lomb Major Special Design. Heat-resisting glass, heavily coated and a powerful, accurate projector.

Cat. No. 27
List Price.....\$12.00
Shipping wt., 9 lbs.



Spill Rings. To confine spilled light from lamp globe. Used wherever light halos are objectionable.

Cat. No. X5
List Price.....\$5.00



Acorn Cap Covering for Focusing Screen. Made of one-piece aluminum.

Cat. No. 23
List Price.....\$0.25



Bracket, Bolt and Wing Nut. Threaded to fit $\frac{1}{2}$ " standard pipe fittings.

Cat. No. 6F
List Price.....\$1.10



Stand. For supporting and fastening lamp to post or other surface. Aluminum.

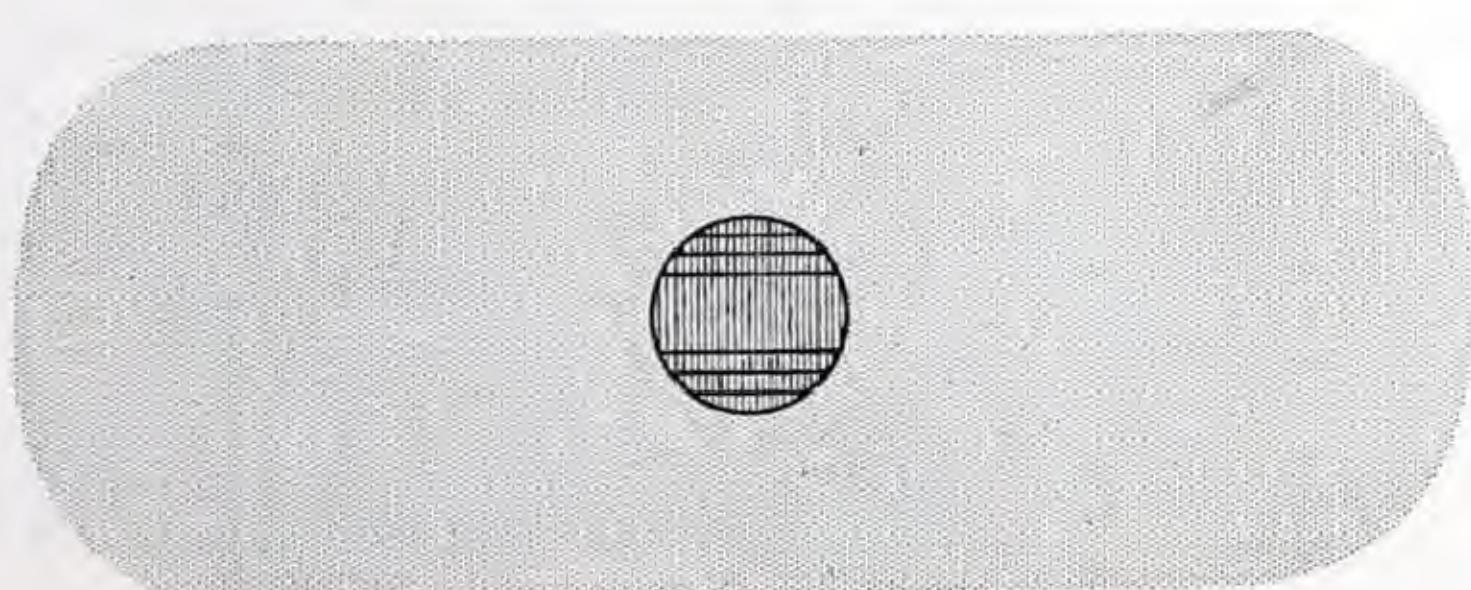
Cat. No. 10F
List Price.....\$1.10



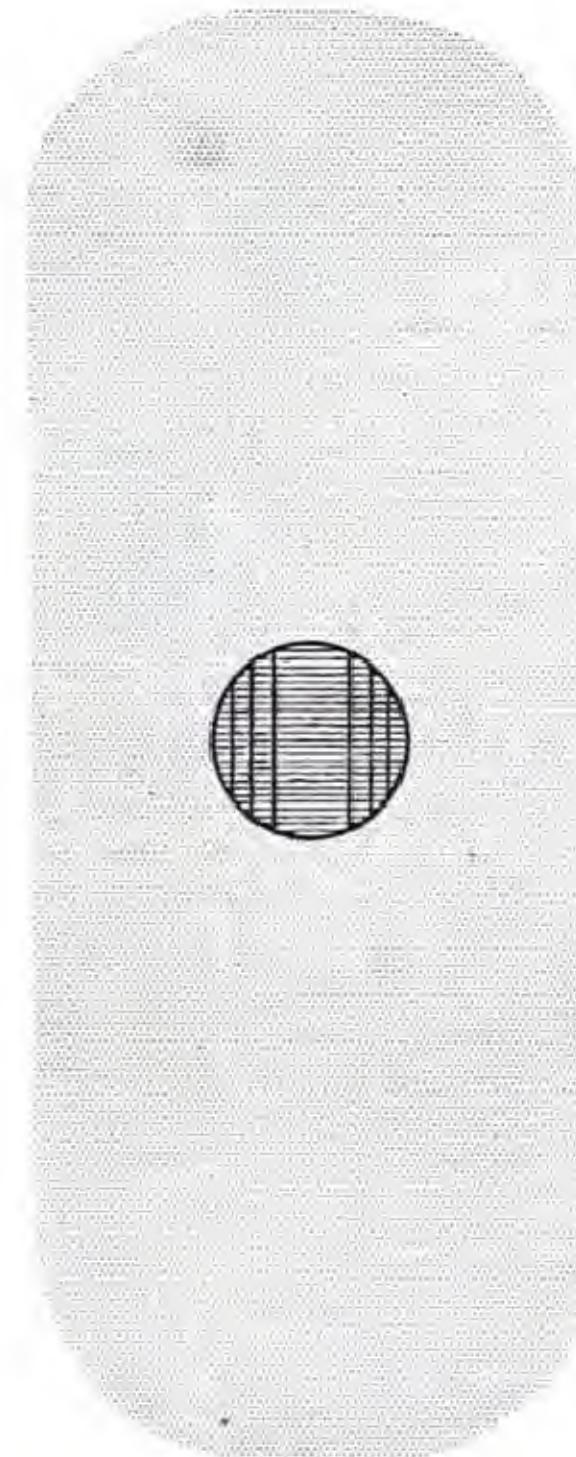
Designed to give an even distribution of light over the desired area. See other side of sheet for further description.

Clear Spread Lens
Cat. No. 1125-CS
List Price.....\$6.00

Shipping weight, 10 lbs.
Furnished in clear only.



The new Major Spread Lens was especially designed to spread the light from the Major Floodlight over a desired area so that all parts were evenly lighted. Sharp, well-defined edges limit this area, which by distance and focusing can be made any size, providing a better lighting job. Note that the six heavy ribs crossing the multiple ribbing always parallel the LONG way of the field. Lens may be rotated to bring the long axis of the beam to any angle.

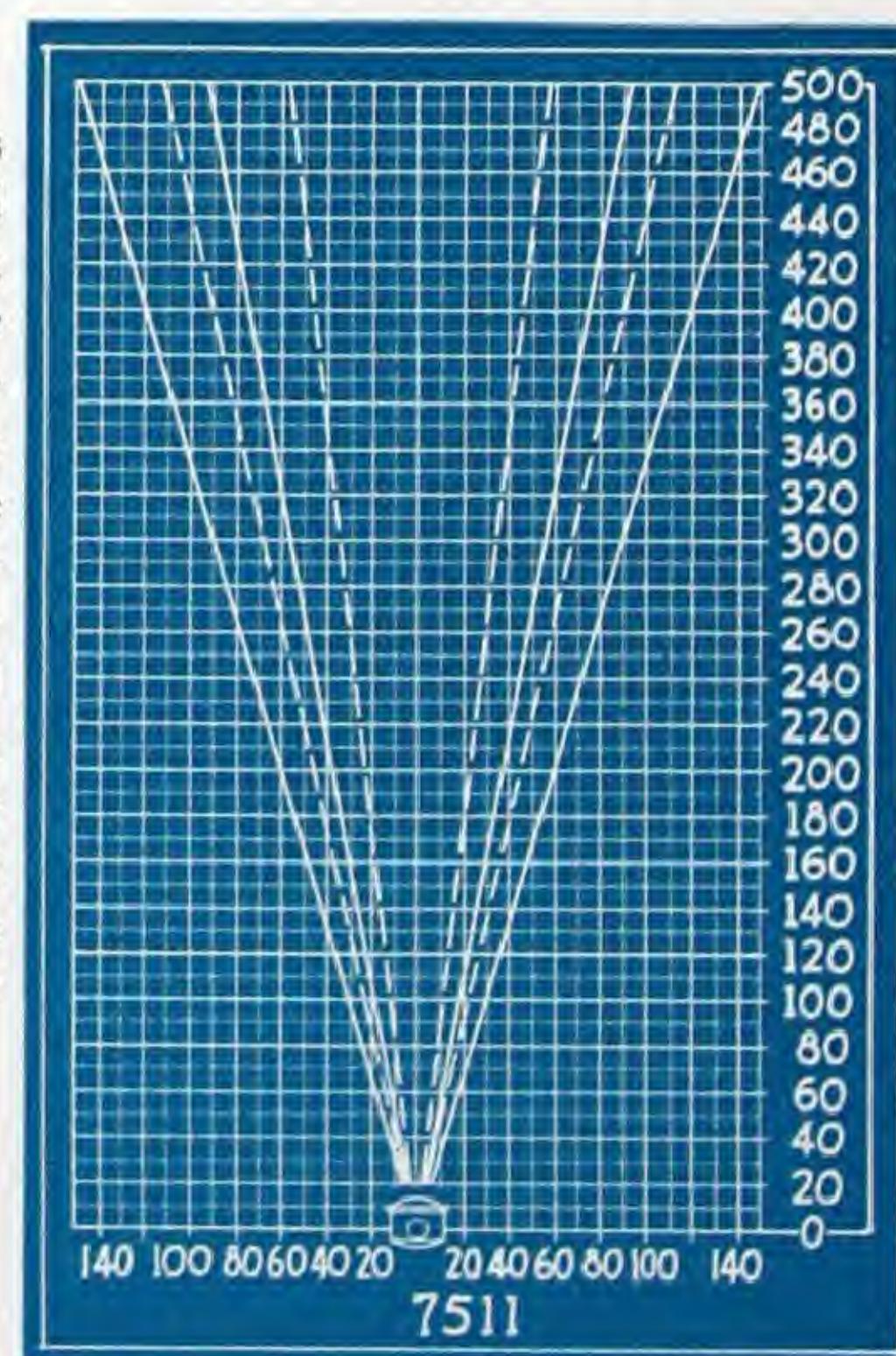


The New Design 1000W Floodlight

THIS new 1000 watt floodlight, carefully engineered over the past two years, is presented to you with the belief that it will match in every way the performance that has built an enviable reputation for the 200, 250, 300, 400 and 500 watt Major floodlights. It is made of spun aluminum and brass and is entirely weatherproof. Equipped with Bausch and Lomb reflectors, which have higher reflective qualities and longer life than any other make. The lamp is suspended from the top from a special socket arrangement that permits easy adjustment, with a tight locking positional fastening. The focusing arrangement is covered by a weathertight cap entirely enclosing all moving parts. The new Major molded Mogul socket is used. The hood is non-ventilated, and has no aperture for moisture to work into the lamp housing. The front is Pyrex molded heat resisting glass roundels, supplied in clear diffusing or colors. The front is the new clamp type that is weatherproof and easily slipped on and off. It is supplied with an 8½" solid iron base with lock nut for position. It can also be used with pipe clamp mounting as illustrated below.



This graph shows the maximum and minimum beam spread with clear diffusing and non-diffusing lamp. The dotted lines are the maximum and minimum spread for non-diffusing, and the solid lines the maximum and minimum for diffusing lamps. All figures on the chart are numbers of feet.

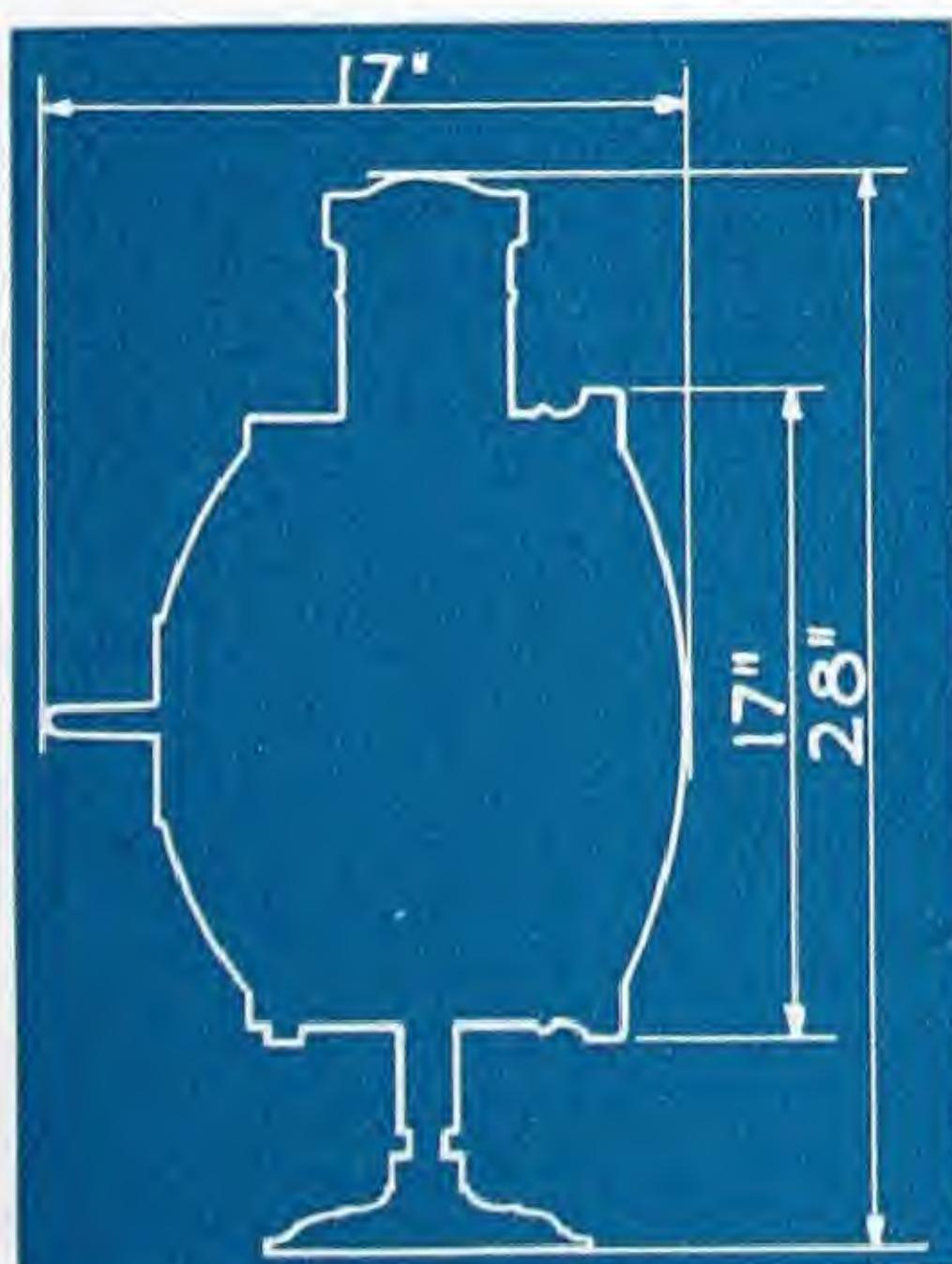


1000 Watt Floodlights

THE addition of this new 1,000 watt floodlight to the Major line opens up many new possibilities for large floodlighting jobs. Special consideration has been given to the design to make it of great structural strength without unnecessary weight. It is probably the lightest weight 1,000 watt floodlight obtainable, yet is built to withstand years of hard service without maintenance. This lighter weight design also provides a lamp of smaller dimension which is essential in modern floodlighting where groups of floodlights are used in comparatively compact spaces.

The Major weatherproof front for color is obtainable on the 1,000 watt unit which provides an inner color roundel protected by an outer Pyrex roundel that makes color lighting as practical as white for external use.

Finished in polished aluminum, this new 1,000 watt floodlight is of exceptional beauty. It not only has the ability for extraordinary performance, but looks entirely capable of giving this performance. Where the conditions on the job require it, floodlight may be equipped with a Major visor which is fastened to the front in a substantial manner to become part of the unit.



This unit uses 1500W, 1000W or 750 watt PS52 mogul screw base lamp.

LIST PRICES

Catalog No. 7510—Major floodlight for interior use, white. Complete, ready to wire, including Pyrex clear diffusing roundel (not including lamp or wiring).

List Price, Each \$70.00

Shipping weight, 40 lbs.

Catalog No. 7511—Major floodlight, exterior use, white. Complete, ready to wire, including Pyrex clear diffusing roundel (not including lamp or wiring).

List Price, Each \$70.00

Catalog No. 7512—Major floodlight, interior use, color. Complete, ready to wire, including Pyrex color diffusing roundel (not including lamp or wiring).

List Price, Each \$70.00

Shipping weight, 40 lbs.

Catalog No. 7513—Major floodlight, exterior use, color. Complete, ready to wire, including Pyrex front and separate color roundel contained in Major weatherproof front ring (not including lamp or wiring).

List Price, Each \$90.00

Shipping weight, 50 lbs.

Catalog No. FV16—Visor for 1,000 watt flood lamp which can be fitted to any of the above types.

Additional to List Price, \$10.00

Any of the above types will be furnished with a Mogul size pipe clamp in place of the 8" base, at no extra cost if so ordered.

1000 Watt Floodlight Parts



Weatherproof Aluminum Cover, one-piece. Holds glass in front with clips and including gasket for one roundel (not including roundel).

Cat. No. 7W
List Price..... Each \$10.00



Weatherproof Aluminum Cover for exterior color use for holding both a color and a clear roundel, including clips, gasket, ring, for two roundels (not including roundels).

Cat. No. 7EW
List Price..... Each \$15.00



Bausch and Lomb parabolic ground and polished heat resisting silvered glass reflector for use in new Major 1000 watt floodlight.

Cat. No. 77
List Price..... Each \$24.00



Spun Aluminum Polished Cap for focusing assembly.

Cat. No. 7FC
List Price..... Each \$4.00



Mogul Pipe Clamp Stand for supporting floodlight on pipe or other round surface. Capacity 1" to 2".

Cat. No. 64
List Price..... Each \$6.00



Cast Iron Base, 8" in diameter, with standard 1/2" pipe threads.

Cat. No. 10SB
List Price..... Each \$4.00

Roundels

Diameter 15 3/4"

| | |
|--------------------------|--------------|
| Clear Non-diffusing..... | 1575-CND |
| Color Diffusing..... | 1575-CD |
| Red Diffusing..... | 1575-RD |
| Blue Diffusing..... | 1575-BD |
| Yellow Diffusing..... | 1575-YD |
| Amber Diffusing..... | 1575-AD |
| Green Diffusing..... | 1575-GD |
| List Price..... | Each \$15.00 |

Shipping weight, 14 lbs. each



Special Bronze Locknut, designed specially with extended handles for hand manipulation for holding lamp in position.

Cat. No. 7FL
List Price..... Each 75c



Ebony and Bronze Hand Wheel for tightening yoke head against lamp.

Cat. No. 7FH
List Price..... Each \$2.00

Areaflood Features

ALL ALUMINUM BODY

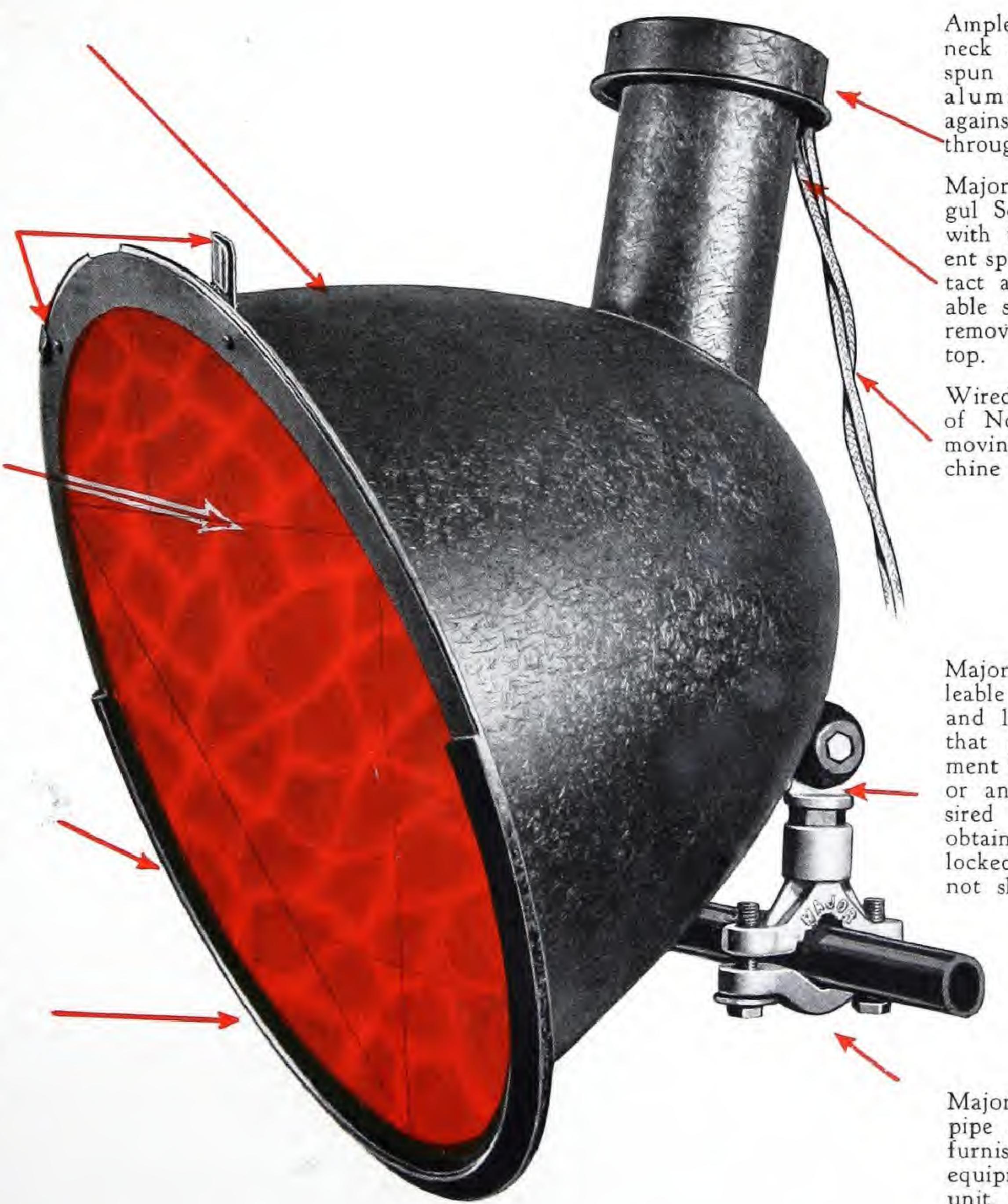
One-piece heavy aluminum spun reflector oxidized aluminum finish inside and durable kristokrak black outside. This is a splendid spinning of the same high grade of other Major spun products.

Spring brass clips to hold color frame tightly against lamp housing at top so there is no leakage of light around frame.

One-piece oxidized aluminum reflecting surface, highly effective for the projection and diffusion of the rays from the lamp. The curve of the reflecting surface is accurately designed to make every inch of it useful in spreading even illumination over the wide area desired.

The color frame groove is spun with the lamphood and cannot loosen or leak light. It is impossible for the frame to fall out.

Two-piece metal color frame, with wires on both sides to hold gelatine sheet. Gelatine is recommended for quick color changes and intermittent use.



Ample ventilating neck and cap, each spun of one-piece aluminum, masked against light leaking through.

Major Molded Mogul Socket No. 55C with the Major patent spring center contact and sturdy reliable shell. Socket is removable from the top.

Wired with two feet of No. 12 stranded moving picture machine cable.

Major adjustable malleable iron knuckle and lock nut fitting that permits adjustment to any direction or angle. When desired adjustment is obtained it can be locked tight and will not slip.

Major malleable iron pipe clamp fitting is furnished as standard equipment with this unit. Grips firmly pipe sizes from 1" to 2".

Areaflood Installations

FOR the many uses of large area lighting this unit was particularly designed. It replaces bulky, inefficient units, many of which have no reflecting powers, but are simply masking hoods for a lamp. The Major Wide Angle Areaflood uses every lumen of the lamp

effectively, is trim looking and very durable. The lamp is held in the correct position in the reflector. The reflector is the inside surface of the hood itself and being aluminum oxidized it will not crack or peel.



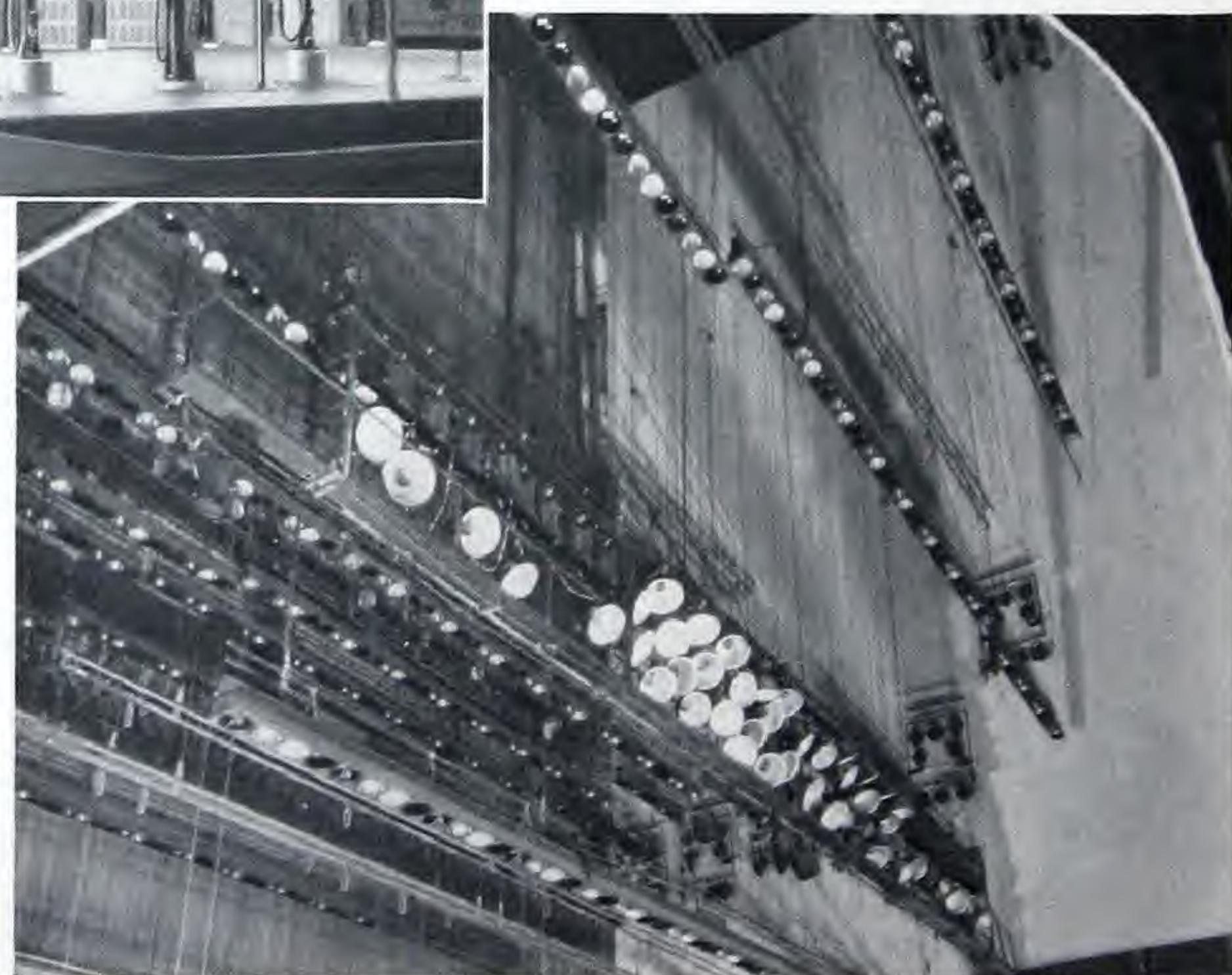
The illustration above shows two Major Areafloods in use at a filling station.

Exterior

Large sign displays, factory yards, service stations, football and other athletic fields, golf practice courses, bathing beaches, skating rinks, loading platforms and outdoor building and paving construction work.

Interior

For varied theater uses, including stage olivettes, back drop and cyclorama lighting and flooding stage from overhead. One unit will evenly light an entire stage. Also for garage and auto repair work, washing cars, etc.



The Chicago Civic Opera stage, illustrated above, used 224 of these Major Areafloods for lighting the enormous cyclorama. This unit was selected only after tests of every known type of unit had been made.

Wide Angle Areafloods

FOR USE WITH 750—1000—1500 WATT LAMPS

For Interior Use

The unit illustrated below is for interior work. While the Major Pipe Clamp Mounting is standard equipment, it can also be used with the Major Crowfoot Base or the tall standard. Mounted on the Major 5-foot adjustable 18" base stand it makes a great olivette for stage use; or for use in a garage, or for other portable lighting requirements. See page 43.



LIST PRICES—Interior

Cat. No. W. A. 1015—Major Wide Angle Areaflood for interior use with 750-1000-1500 Watt P. S. 52 Lamps, wired with two feet of moving picture cable, complete with pipe clamp (without crowfoot base, lamp or color frame).

List Price, \$44.00

Cat. No. W. A. 1016—Same as above, with Major crowfoot for fastening to flat or rounded surfaces by means of screws or bolts. (Without pipe clamp.) **List Price, \$40.00**

Cat. No. W. A. 1017—Same as above, with Major 5-foot adjustable stand with 18" base and twenty feet of No. 14 stage cable. (No pipe clamp.) **List Price, \$50.00**

Cat. No. W. A. 21—Two-piece metal color frame to fit above units. (No gelatin.) Gelatin is recommended for quick color changes and intermittent use. **List Price, \$2.00**

Shipping weight (crated) of W. A. 1015-1017, 36 lbs. Shipping weight (crated) of W. A. 1016, 72 lbs.

For Exterior Use

For exterior uses the Major Wide Angle Areaflood illustrated below is excellent. The projecting hood keeps rain or snow from the reflecting surface and protects the lamp. Two of these Major units mounted on a 14-foot pipe standard will brightly illuminate an area of fifty by seventy-five feet, and larger spaces where less light is desired.



LIST PRICES—Exterior

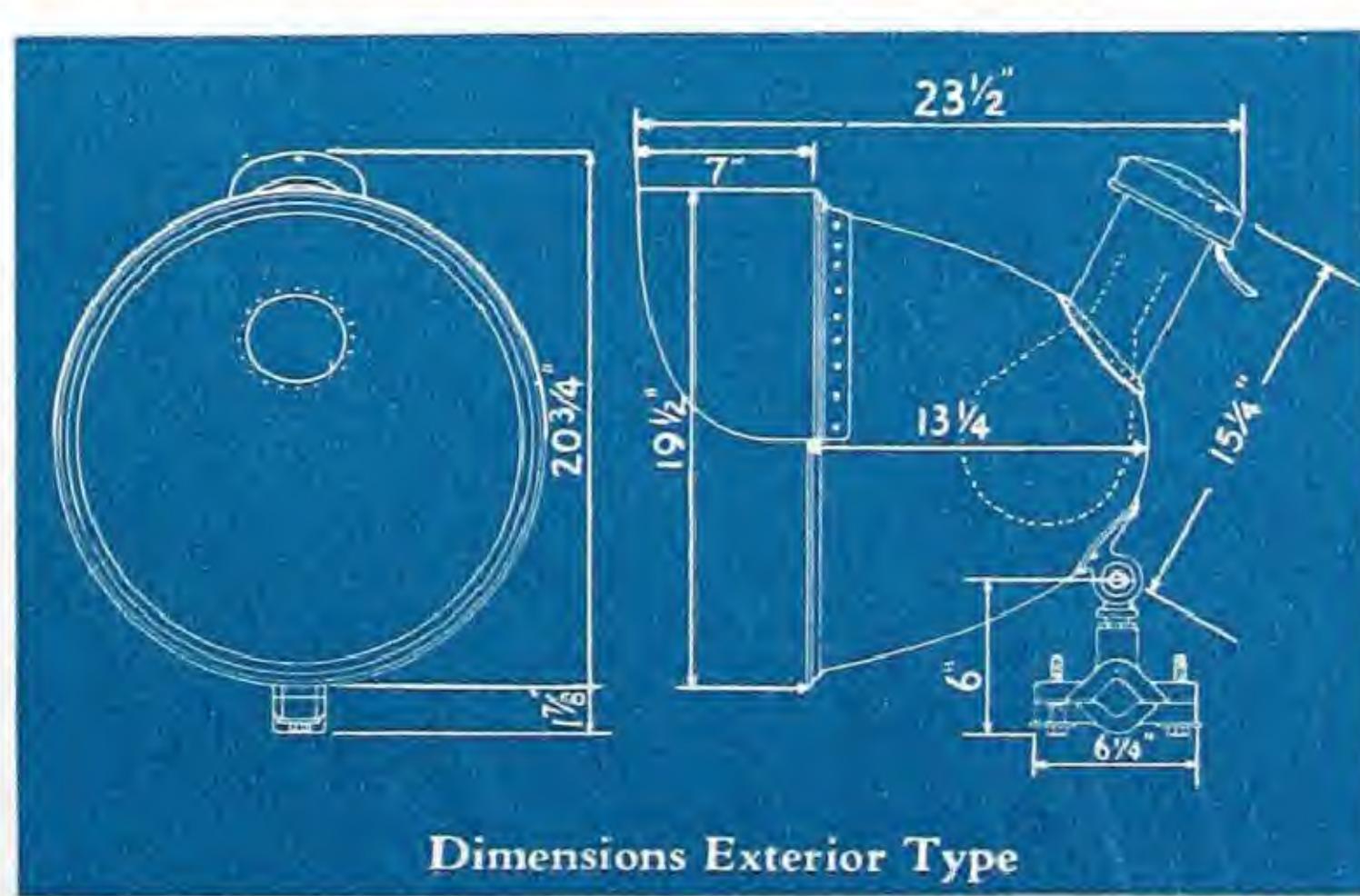
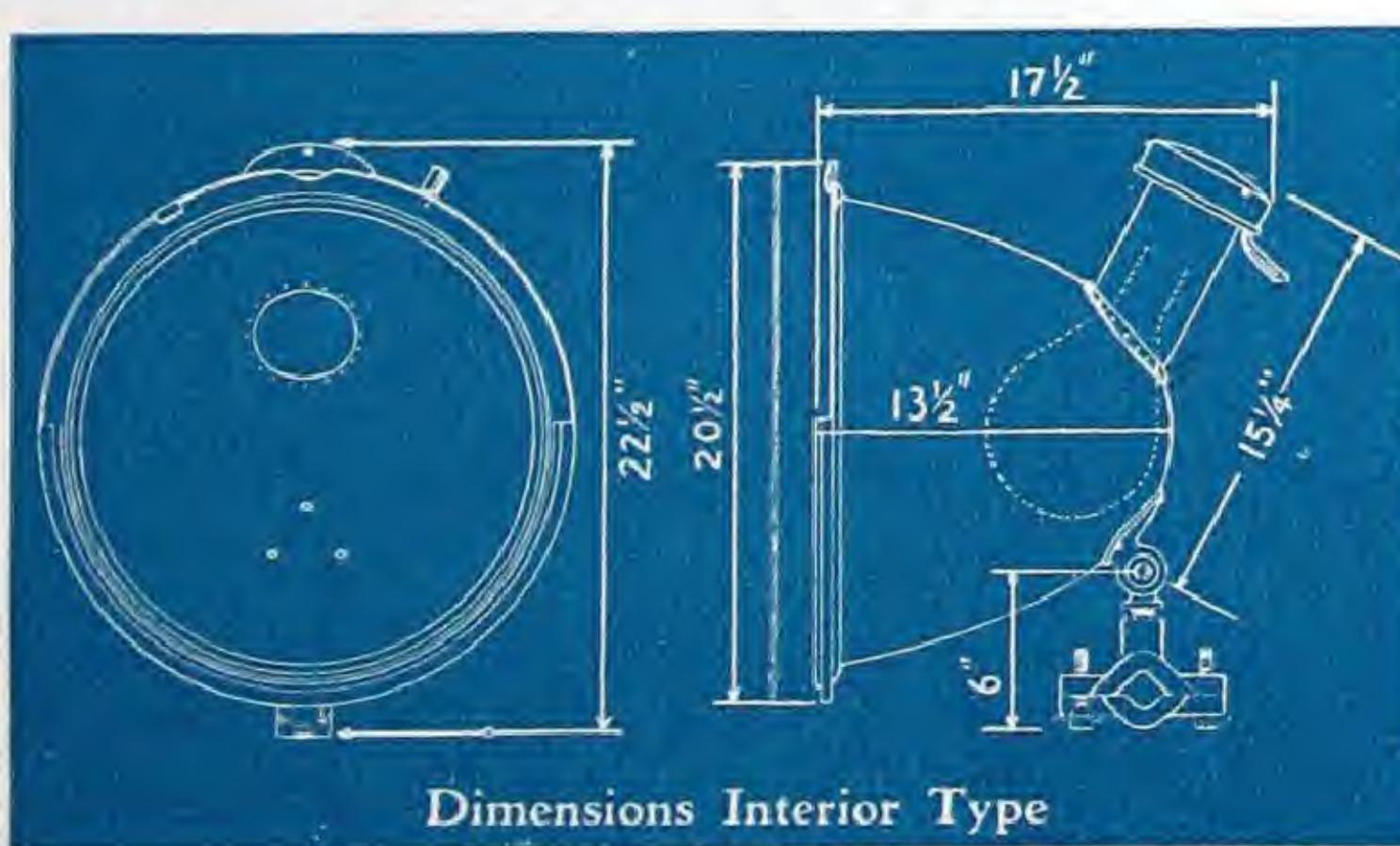
Cat. No. W. A. 1018—Major Wide Angle Areaflood for exterior use with 750-1000-1500 Watt P. S. 52 Lamps, wired with two feet of super-service cord, complete with pipe clamp (without crowfoot base or lamp). **List Price, \$50.00**

Cat. No. W. A. 1019—Same as above with Major crowfoot base for mounting on flat or round surfaces by means of screws or bolts (without pipe clamp). **List Price, \$46.00**

Cat. No. W. A. 1020—Same as above, with Major 5-foot adjustable stand with 18-inch base and twenty feet of No. 14 stage cable. (No pipe clamp). **List Price, \$56.00**

Shipping weight (crated) of W. A. 1018-1019, 36 lbs.

Shipping weight (crated) of W. A. 1020, 72 lbs.



New Standard Base Sockets

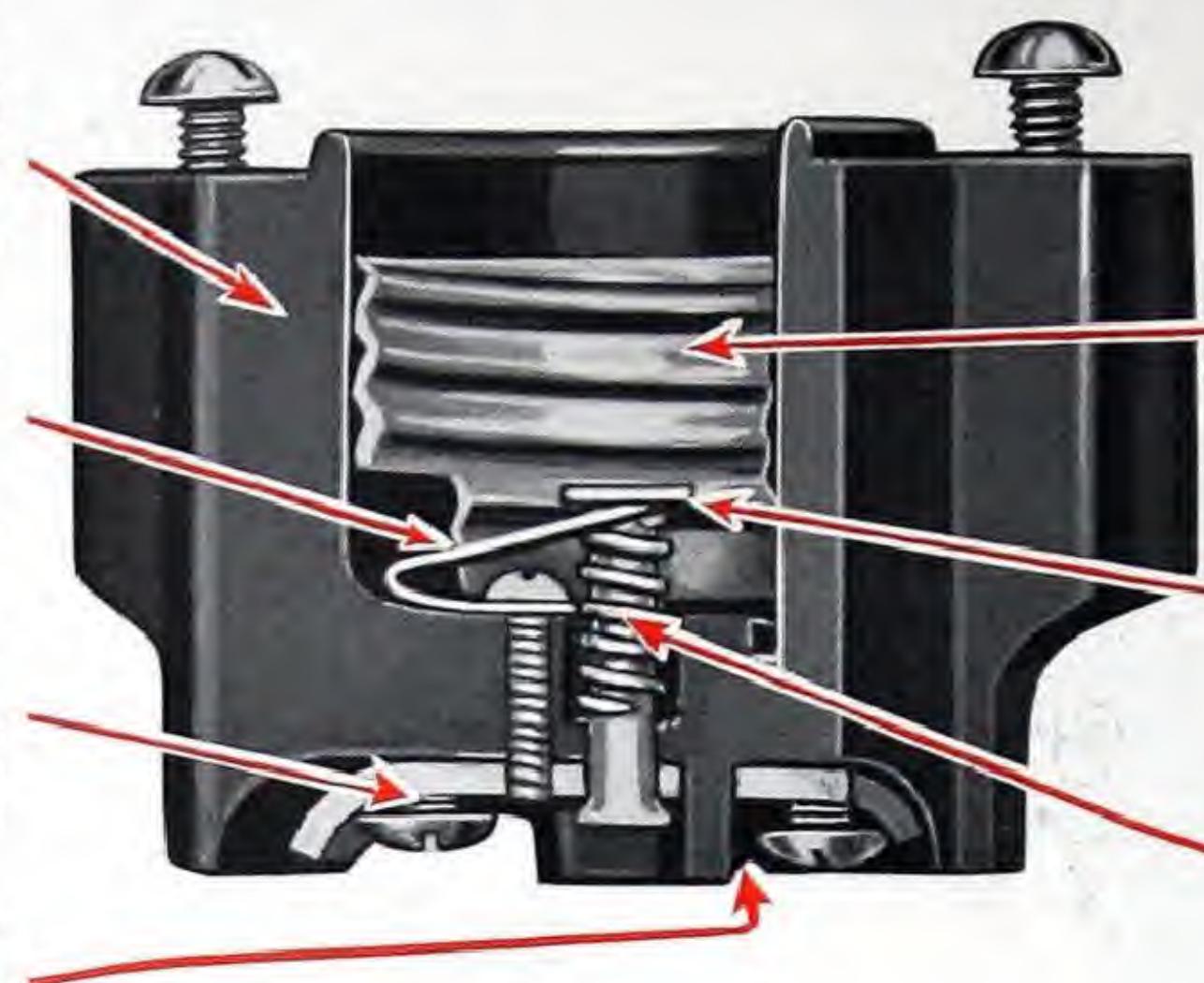
Moulded Thermopax Body—Cold moulded, non-absorptive, impregnated Thermopax is used as a socket body. Almost impossible to break the 54-B—a much more sturdy job than any other socket on the market.

Current Carried to Center Contact by Phosphor Bronze Strap—The current strap is heavy phosphor bronze and does not provide spring tension, merely floating over the coil spring.

Heavy Upset Screw Terminals—The terminal screws on the back, heavier than most, are upset so they can't fall out—yet they come out far enough to take No. 12 solid wire easily.

Extra Screw Holding Yoke—Three screws hold the yoke on the back of the socket. Two are removable from the front, the third one is wedged over. Shell may therefore be removed and replaced from the front without the yoke falling off in back—a special advantage in sign and cove work.

ANOTHER new Major development, this time at the request of the sign companies, particularly those interested in the maintenance of signs. They needed and wanted a socket with an unbreakable body, one that was tougher than all others. The electrical parts must be more rugged, with heavier current carrying



Type 54-B

Heavier Shell Than Other Sockets—0.012 gilders metal. No "resistance heating" or burning due to flimsy material.

Solid Machined Button Head Center Contact—Not a stamping but a machined, thick piece—will not burn or corrode away.

Phosphor Bronze Coil Spring Support for Center Contact—An absolutely new feature. Constant spring pressure and positive contact are assured by this spring. Does not carry current, so even unusual current overloads will not affect it.

units. Major had for years made a mogul socket they liked and they demanded a medium base socket with the mogul's practical features embodied and with new ones to meet the above named requirements. They asked Major—and here it is, the sensation of the sign and trough field! Study its features outlined below and send for a sample. Know its unfailing service and you'll never use any other make. The centers of the mounting screws are the same as other standard makes, so it is interchangeable.



Four No. 8-32 Mounting Screw Inserts—Sockets may be installed with wire channels in line in metal trough regardless of how mounting holes are punched. Centers on these mounting screws are the same as other standard sockets. Only two No. 8-32 R. H. Brass Screws are furnished with each socket. Only one screw is inserted into the insert, the other is loose in the box.

Practical electricians will be pleased to see the open wiring channel this socket provides, together with the heavy yoke piece and terminal screws. Screws will not fall out, but will back out sufficiently to easily take No. 12 wire.



LIST PRICE

Listed and Approved by Underwriters

Major Moulded Socket—Cat. No. 54B—with Two Mounting Screws..... List Price, Each 20c
Standard Package 100. Shipping weight 32 lbs.

Mogul Socket—Screw Base

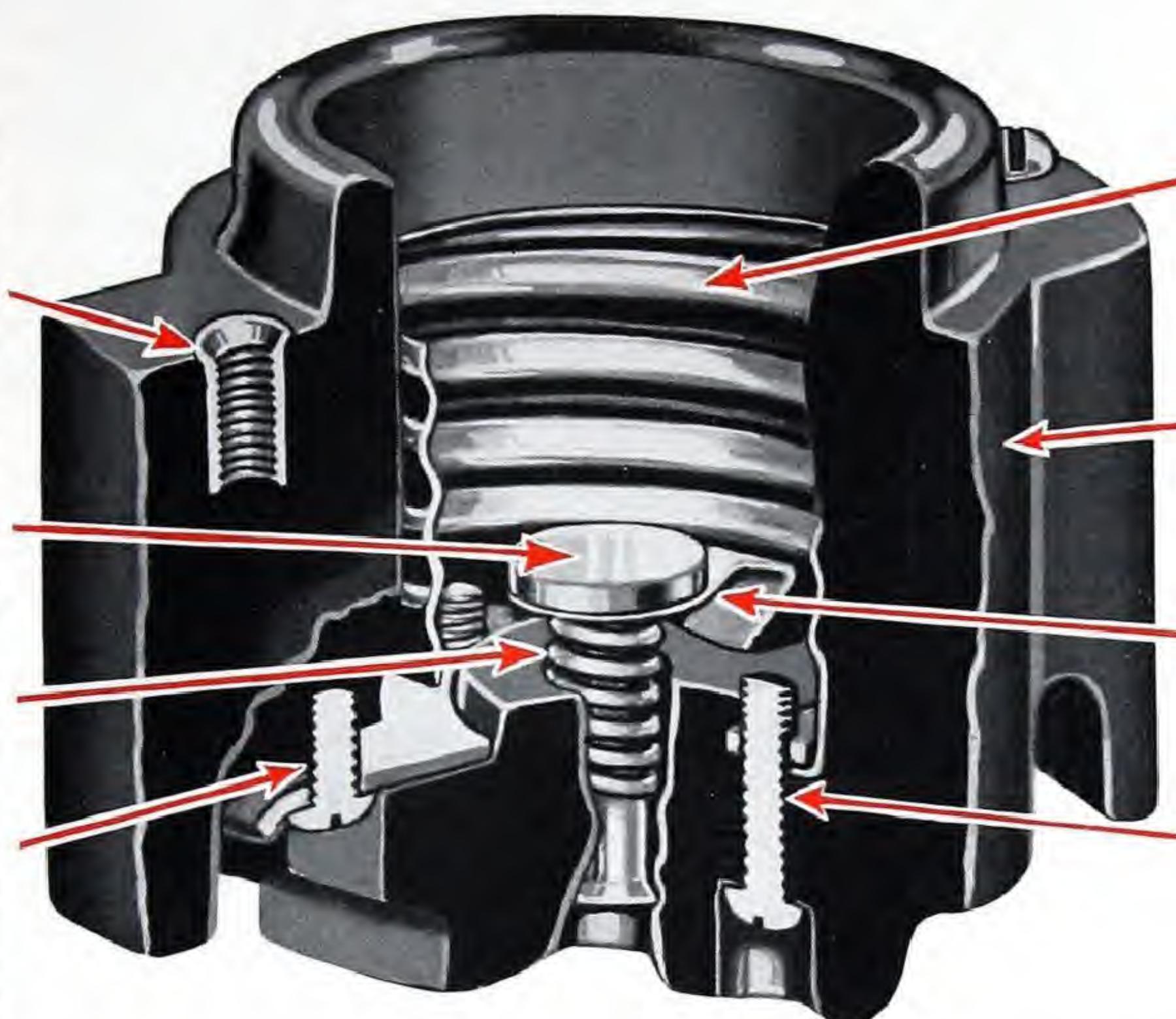
Type 55-C

Two No. 10-32 heavy mounting screw inserts imbedded securely in moulded material. Centers on these screws are the same as other standard mogul sockets.

Solid Machined Button Head Center Contact—Not a stamping but a new design, machined, thick piece—will not burn or corrode away. Upset on the bottom to stay in place forever.

Phosphor Bronze Coil Spring Support for Center Contact—An absolutely new feature. Constant spring pressure and positive contact are assured by this spring. Does not carry current, so even unusual current overloads will not affect it.

Heavy Upset Screw Terminals—The terminal screws on the back, heavier than most, are upset so they can't fall out—yet they come out far enough to take No. 8 solid wire easily.



Heavier Shell Than Other Sockets—0.020 gilders metal. No "resistance heating" or burning, due to flimsy material.

Heavy body designed for strength without bulk, furnished in cold moulded, non-absorptive, impregnated Thermopax.

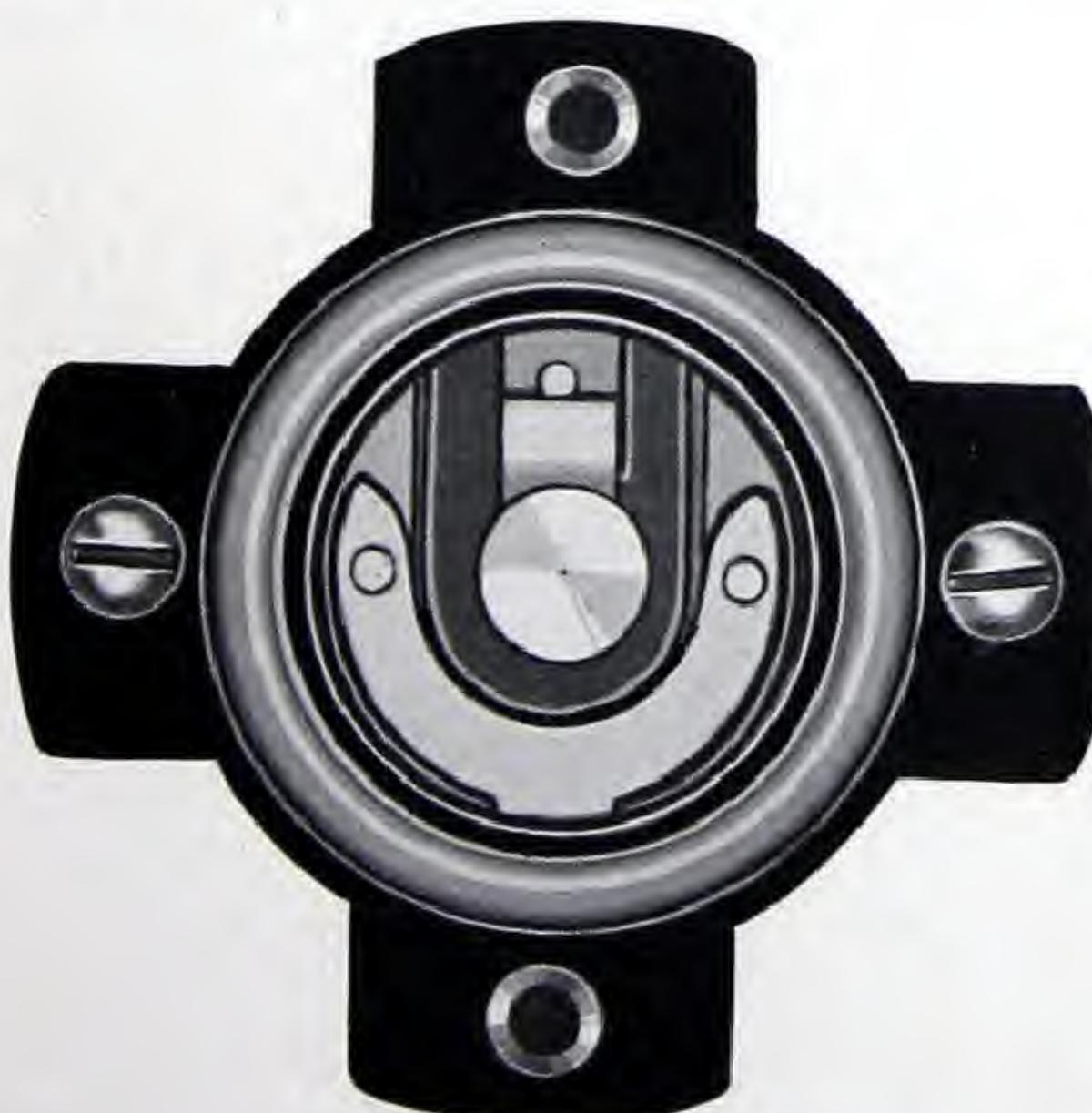
Current Carried to Center Contact by Phosphor Bronze Strap—The current strap is heavy phosphor bronze and does not provide spring tension, merely floating over the coil spring.

Inner yoke and shell held by heavy screws through the back of moulded body.

THE 1000, 1500 and 2000 watt lamps certainly deal destruction to those old style mogul sockets, because they were only the me-

Top View

This view emphasizes the heavy horse shoe anchor for the shell and large spring center contact. The Major mogul socket is listed and approved by the Underwriters' Laboratories.



dium base socket made larger, increasing the weaknesses of design and material by the heavy additional load and arcing. So Major now adds Thermopax moulding to the famous 55C to give to the electrical world a practical, husky socket that remains safely cool with the largest lamps, that stands the hardest service, and one that never ruins a lamp with a loose contact between lamp and center contact of socket. Strong mechanically, as well as electrically, here is a socket that saves time and money, and is always on the job. The centers of the mounting screws are the same as other standard mogul sockets.

Listed and Approved by Underwriters

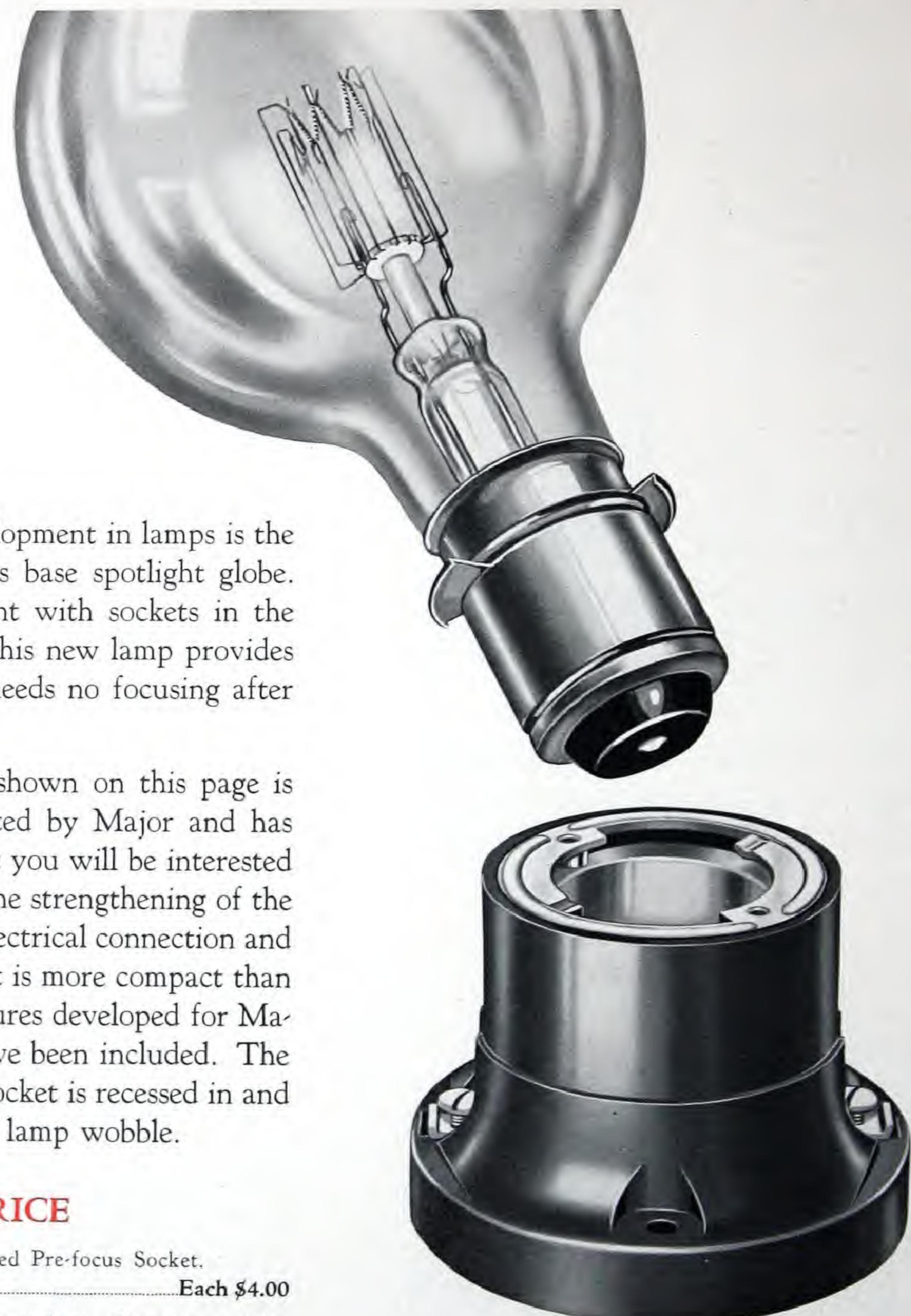
LIST PRICE

Major Mogul Socket—Cat. No. 55C—with Two

Screws..... List Price, Each \$1.00

Standard Package 25. Shipping Weight 21 lbs.

New Major Prefocus Socket



THE most recent development in lamps is the new Mazda pre-focus base spotlight globe. The immediate equipment with sockets in the Major spotlight to take this new lamp provides perfect equipment that needs no focusing after it is set at the factory.

The pre-focus socket shown on this page is engineered and constructed by Major and has a number of features that you will be interested to hear. Particularly in the strengthening of the various parts for better electrical connection and long life. Also this socket is more compact than others and the many features developed for Major screw base sockets have been included. The brass disc on top of this socket is recessed in and has ribbing to prevent all lamp wobble.

LIST PRICE

Catalog No. PF66—Major Molded Pre-focus Socket.
List Price..... **Each \$4.00**

Standard package contains 25 sockets. Shipping weight, approximately 21 lbs.

The design of the Major pre-focus socket is shown by the above illustration. The Edison Mazda pre-focus base spotlight lamp has in place of the screw a sleeve with two projecting fins. In an optical jig the lamp filament is so adjusted that it rests at a precise position

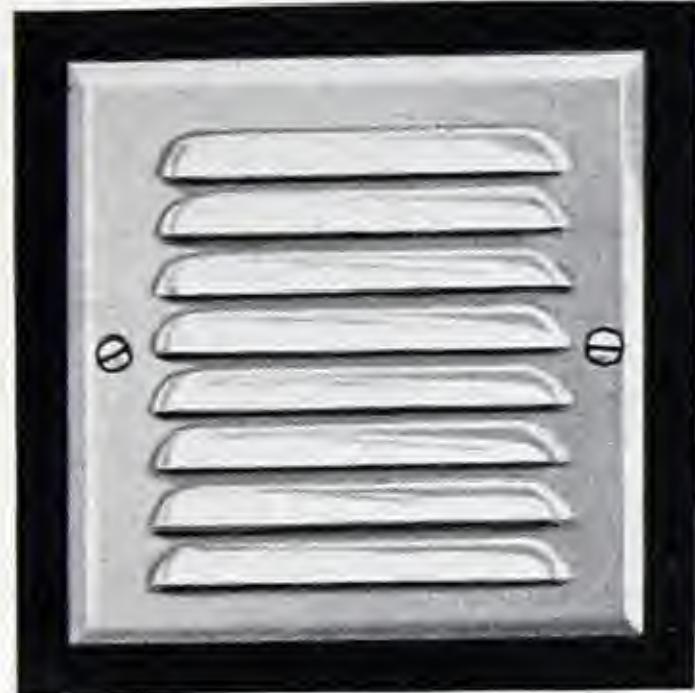
with a variation of less than 1/32 of an inch. Thus when the socket is installed in a spotlamp and the adjustment made at the factory in relation to the lens and reflecting mirror, all succeeding lamps must register correctly to this pre-focus adjustment.

Louver Lights

TO THE practical observer the advantages of the new Major Louver Light will be at once apparent. It is light in weight, strong, easily installed and performs perfectly the work for which it is designed. Every detail has been given engineering consideration and is scientifically perfected to create the best light, regardless of cost. Manufacturing development has achieved a method that produces this perfection at a remarkably low cost.

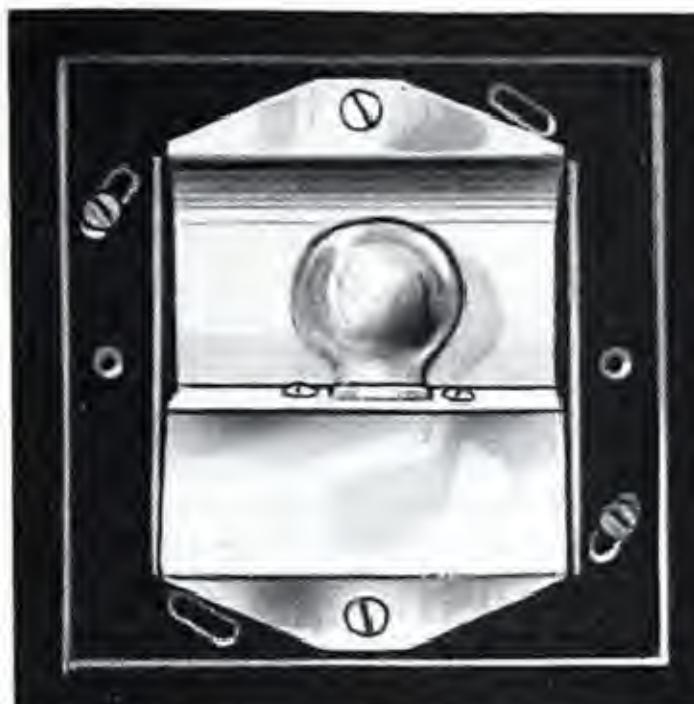
LIST PRICE

Catalog No. L-66—Standard finish—white enameled baked on..... \$5.00
Unfinished, or any special finish, extra, at cost. Shipping weight $2\frac{1}{2}$ lbs.



Standard finish white enamel baked-on. Can be furnished either unfinished or in any special finish to match surrounding walls and hardware at slight extra cost.

Removable sheet metal front, die-made, beveled edges, code thickness steel.



Intermediate base socket assembled to plate, easily removable with contacts accessible, entire reflecting surface chromium plated.

Extension flange plate excludes all light an uneven plastered wall might allow to come through, and makes a smooth, finished job.

Adjustable brackets at each end of box permit adjustment of flush mounting so that regardless of careless installation of the box or variation of plaster thickness the adjustment can be made to put the cover plate in perfect alignment.



Specially designed louvers distribute the light, directing it downward to the proper surface and effectively concealing the lamp itself.



Uses a practically designed outlet box, so that no special equipment is necessary on the conduit system.

Ramps—

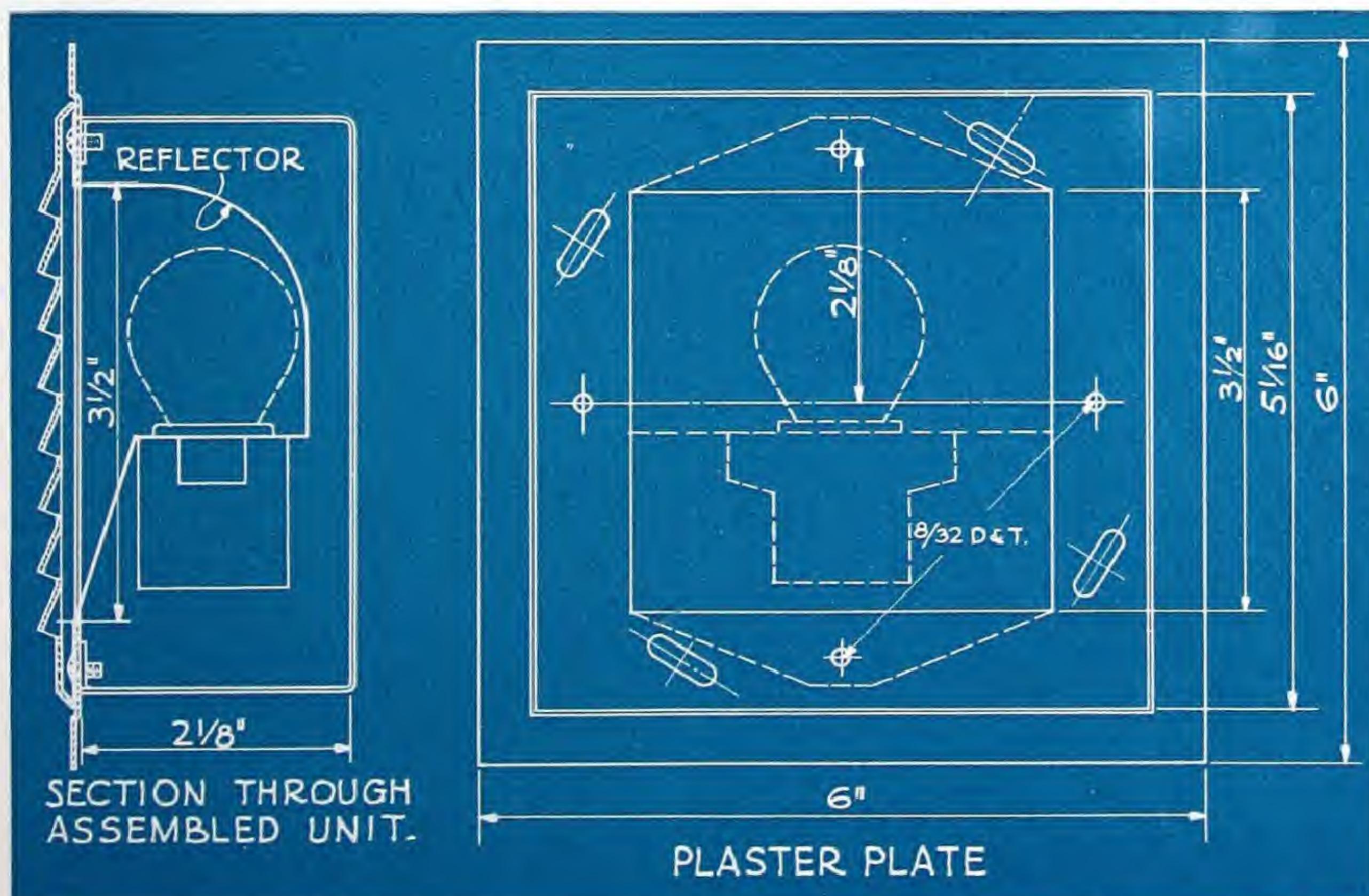
that usually are pocket holes of darkness in most places can be made safe with Major Louver Lights. The light is thrown only on the floor.

Corridors—

well lighted, give any theater, public building, institution, or hospital an enviable reputation for careful consideration of the comfort and safety of occupants and visitors.

Stairs—

have a way of tripping unwary feet. Make them safe and troubleless with Major Louver Lights.

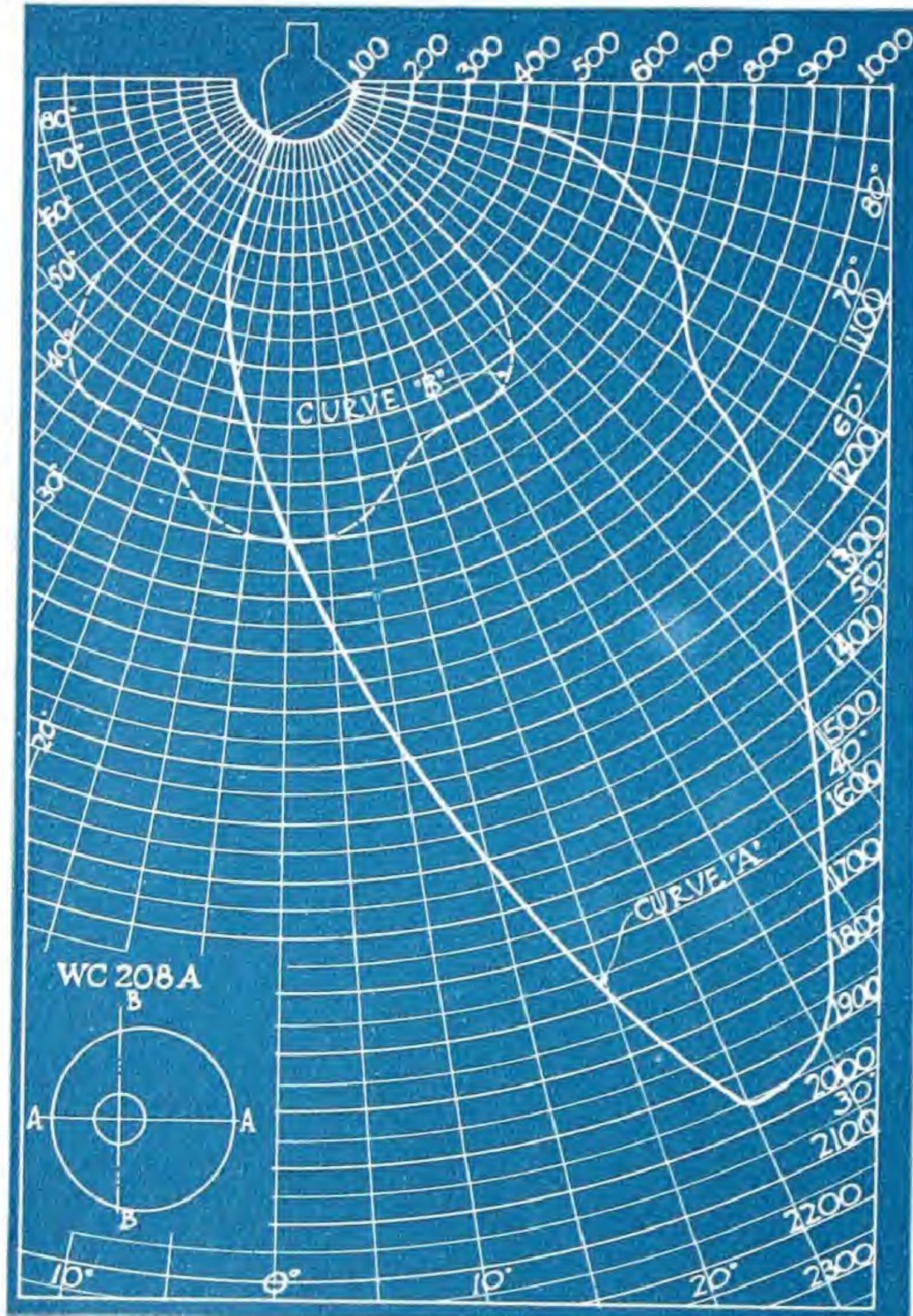


Window Lighting Equipment

THE great advance made in window lighting has necessitated the use of the most modern type of reflector. The Major chromium plated

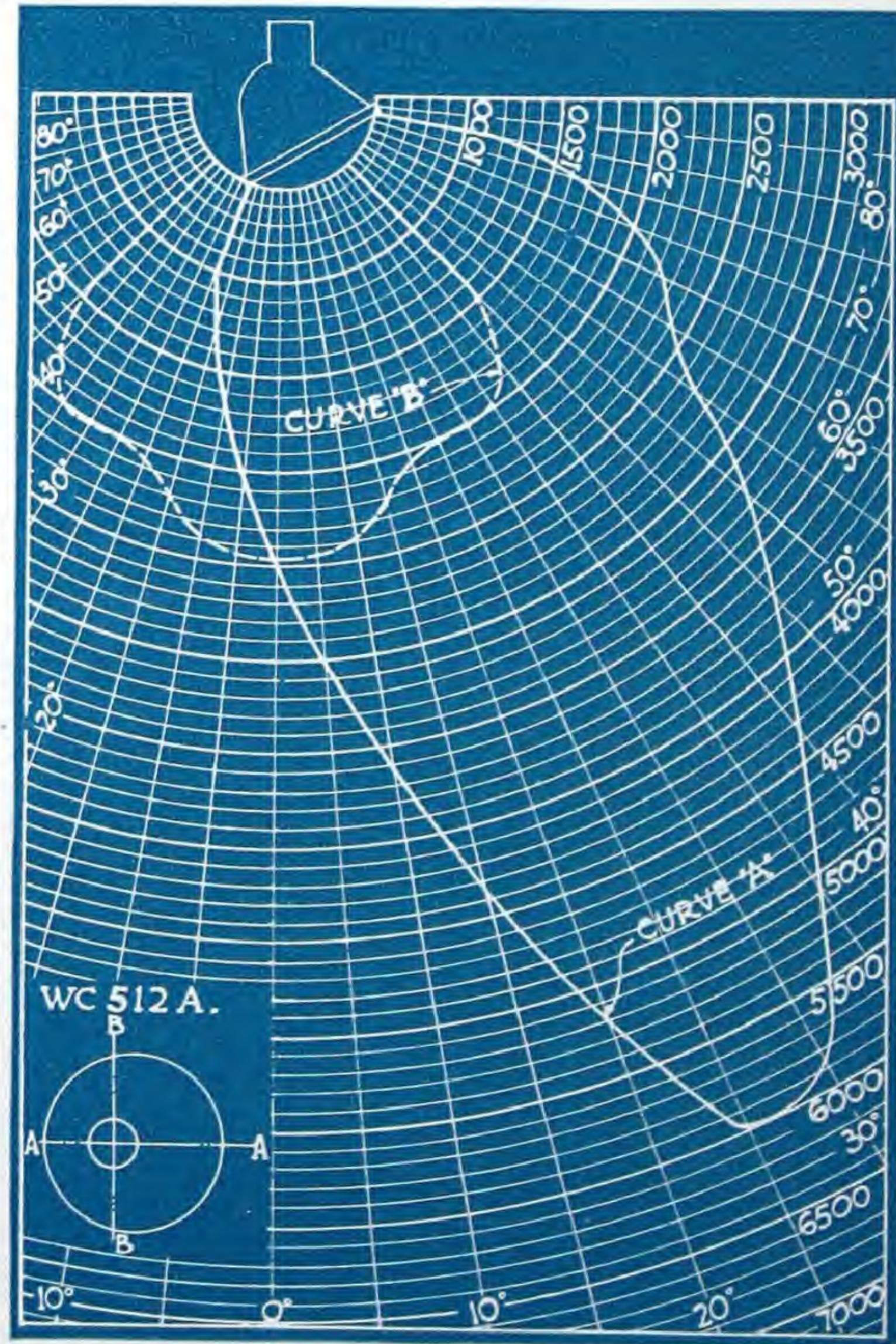
reflector maintains its high efficiency over a longer period of time than any other. This is due principally to the hardness of chromium which is next to the diamond as listed by the Bureau of Standards, and the hardest commercial metal or alloy known. This hardness of chromium presents a high specular surface with the reflection factor of 65. It will not tarnish, it offers practically no adherence for dirt, and will not crack, peel, or check. Wiping with a cloth restores its efficiency at once.

The two curves below afford information for the engineer and indicate the high efficiency of these reflectors.



The curves illustrated on this page are two samples of Major lighting efficiency. They show the distribution taken with two cross sections of the WC208-A and WC512-A. The diagram in the lower left hand corner of each cut is the key to the curves, Curve B being taken parallel to the window and Curve A at right angles to the window. The "0" degree is straight down from the light parallel to the glass, and the other degree figures are the angle from that. The larger figures shown are candle power.

From these curves it will be seen that the shape of Major reflectors place the highest intensity of light on the displayed merchandise.



Major Lighting Results are Not Accidental!

THE development of Major Chromium Plated Reflectors for window lighting has worked out in practice a remarkable efficiency under all conditions. Chromium plated reflectors deliver whiter light to the display than glass reflectors. The high permanent efficiency of chromium maintains the original volume of

light delivered long after other reflectors have lost their lighting efficiency. Being of spun copper they do not deteriorate and are not subject to accidental breakage. The modern thought of color effects in windows is particularly practical with Major equipment.

The Reflector

The angle type is shown in the illustration trough and is like all Major Reflectors, of spun copper and plated with chromium. It will not crack, peel, or check, is very slow to collect dirt, and is extremely easy to clean.



New Slip Ring

This is the greatest development in roundel retaining rings ever devised. It holds the roundel securely, yet can be easily opened with one hand. This is particularly valuable in relamping high or difficult to get at window troughs.



Roundels

Obtainable in clear diffusing in six natural colors Pyrex heat-resisting glass. Others colors besides primary ones may be obtained by the use of gelatine in frames that will fit the slip ring provided with the glass. Gelatine is not permanent for long period lighting.

Adjustable Bracket



This phantom view of the simple and effective bracket is shown with the trough in the level position. This bracket has great ease of installation and wide range of adjustability.



This shows a greater adjustability than need be used even in very deep windows. The adjustment is both very easy and yet very safe. The upper part of the bracket is fastened to the window ceiling and the vertical portions may be extended to any desired distance from the upper part of the window for the placing of reflector trough.

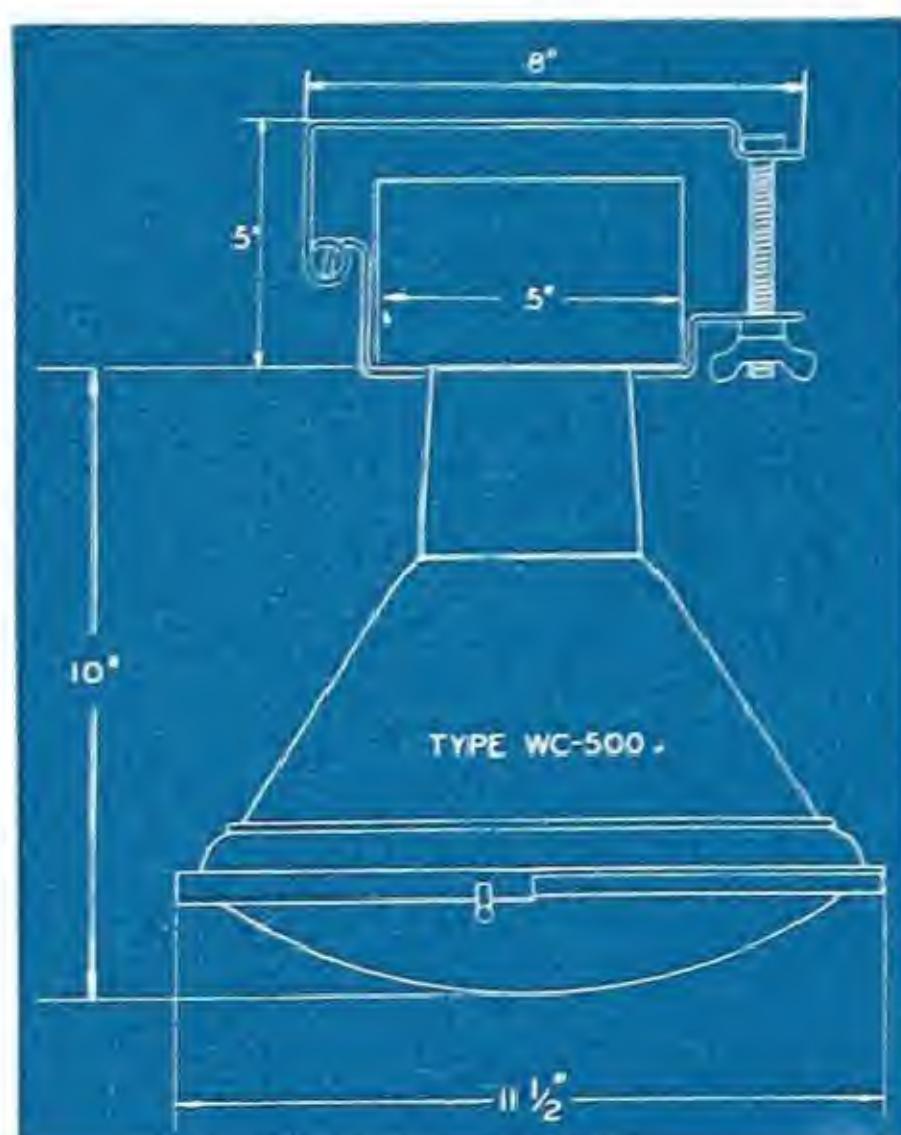
Trough

The construction of this is shown by the small illustration. The sides of the top and bottom sections are as wide as the trough is high, giving double thickness and producing a tight and stiff trough.

Window Reflector Troughs

WC-500

500 watt straight reflector type of ample volume for large area windows of shallow depth. The illustration shows more clearly the manner of hanging trough with the adjustable bracket. Colored roundels give a wide selection for special effects.



Type WC-500—12" Centers—Minimum 500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$18.00
If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00
Cat. No. WH5—Adjustable Bracket for 4x5" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced on 6-ft. centers or less.....
List Price, Each \$4.00
Extra clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$6.00

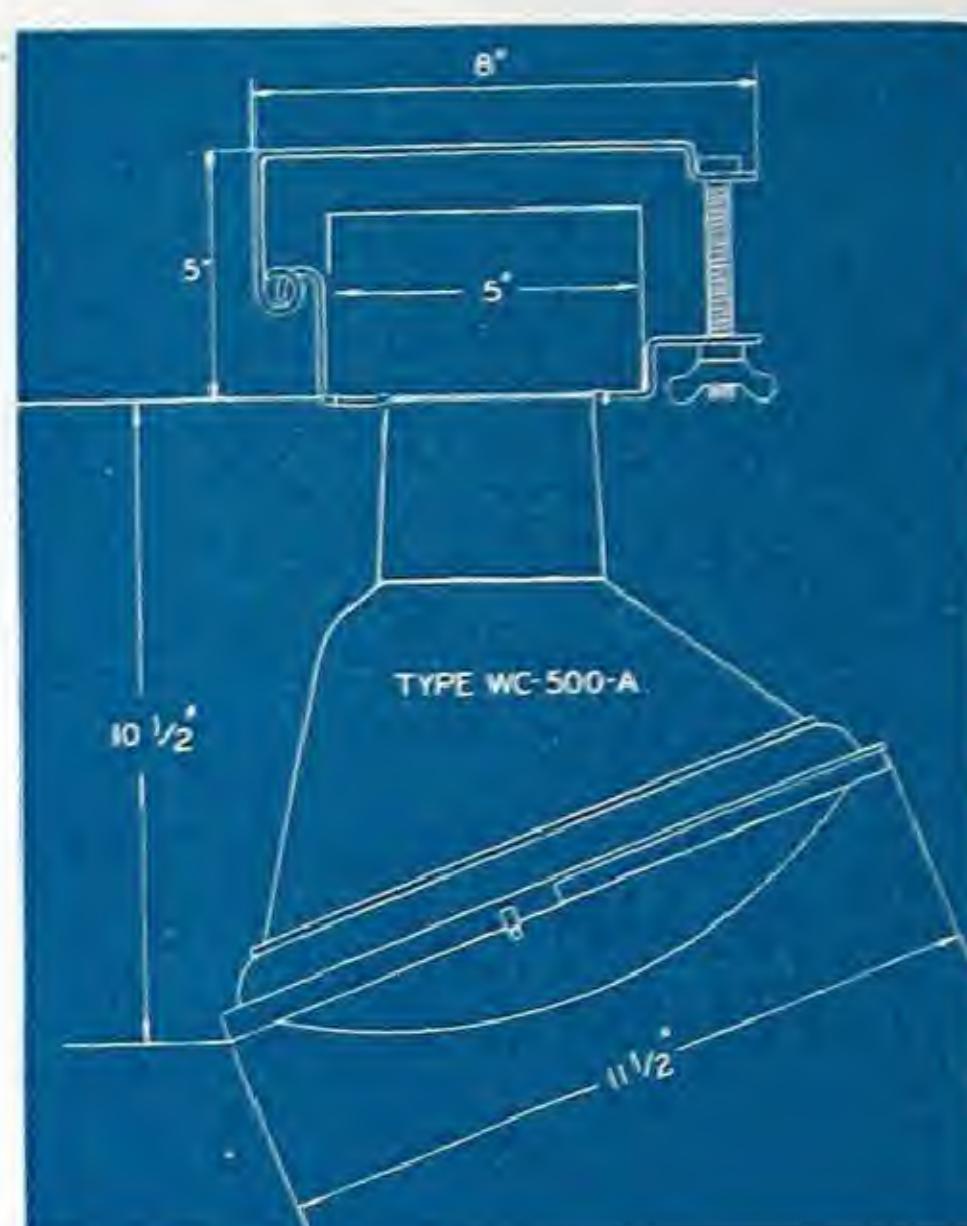
Shipping weight, 18 lbs. per foot.



Blum's Vogue, Chicago. Alfred S. Alschuler, Arch.
Fuchs Electric Co., Cont.

WC-500A

This is a large reflector trough, but so designed to hang close to the front of the window and deliver a large volume of light from the window to the back wall. It has high lighting efficiency, adjustability and color or white roundels.



Type WC500A—12" Centers—Minimum 500W—PS40 or 300W—PS35 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$19.00
If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00
Cat. No. WH5—Adjustable Bracket for 4x5" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced on 6-ft. centers or less.....
List Price, Each \$4.00
Extra clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$6.00

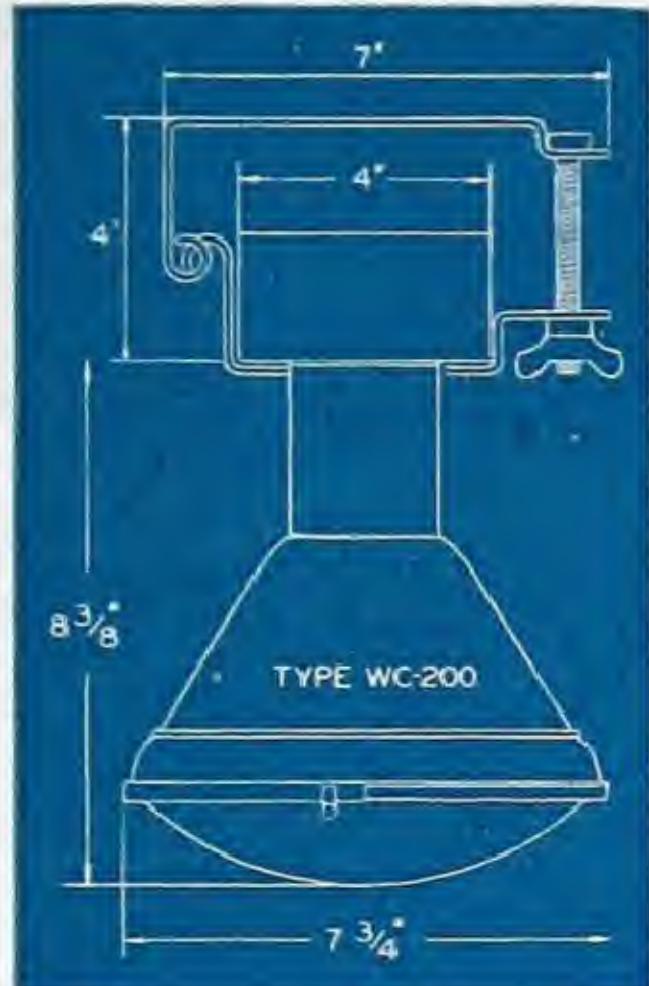
Shipping weight, 14 lbs. per foot.



Wieboldt Department Stores. Alfred S. Alschuler, Arch.
Fuchs Electric Co., Cont.

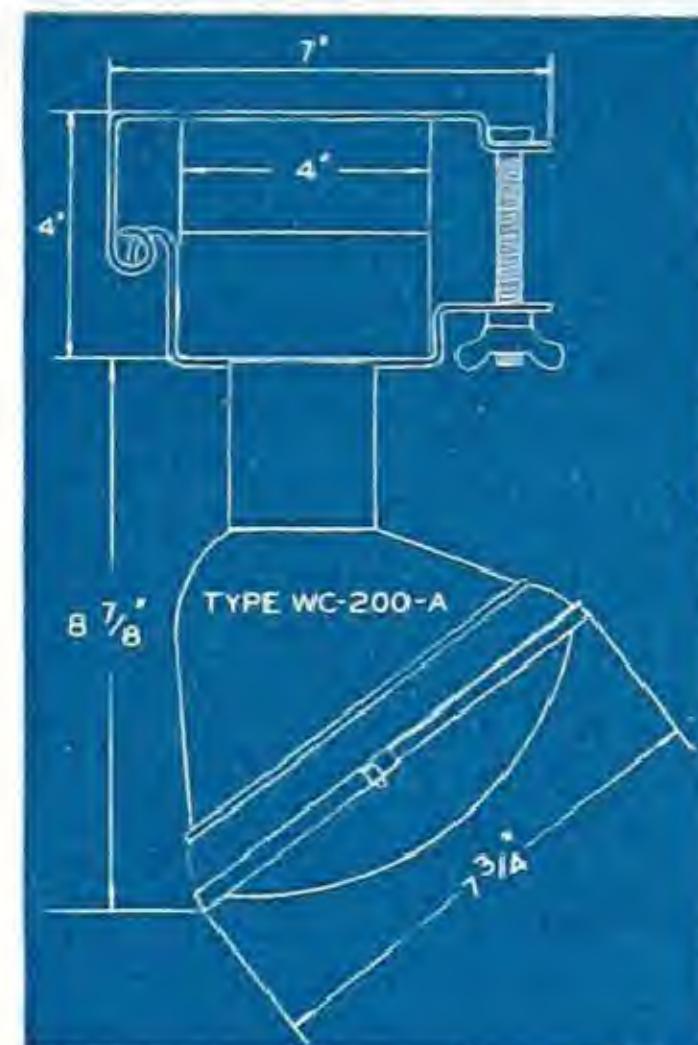
Window Reflector Troughs

WC-200



For good volume and distribution of light and an "easy to hide" light source, these 200 watt troughs are most excellent. They can be used in a wide variety of windows with efficiency. Color and adjustability factors are included as in other types.

WC-200A



LIST PRICES

Type WC-200—8" Centers—Minimum 200W—PS30 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$16.00

If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00

Cat. No. WH4—Adjustable Bracket for 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced on 6-ft. centers or less.....
List Price, Each \$4.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$3.00

Shipping weight, 16 lbs. per foot

Type WC-200A—8" Centers—Minimum 200W—PS30 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$17.00

If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00

Cat. No. WH4—Adjustable Bracket for 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced on 6-ft. centers or less.....
List Price, Each \$4.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$3.00

Shipping weight, 16 lbs. per foot



Wieboldt Department Stores. Alfred S. Alschuler, Arch.
Fuchs Electric Co., Cont.



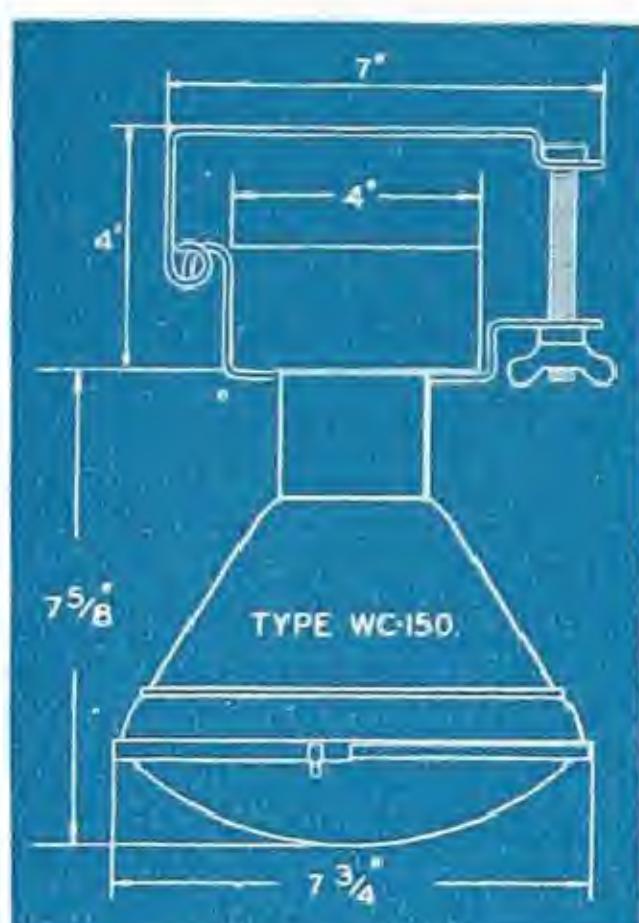
Because of the wide variety of dimensions and shapes of windows the selection of proper troughing and reflectors should be discussed with Major men. Every district office has a capable sales engineer.

Volume of light needed varies with the color of the goods or products displayed. It is wise to put in ample equipment to flood dark colors with brilliant light. Also in the use of color light the need of extra volume is necessary for the best effects.



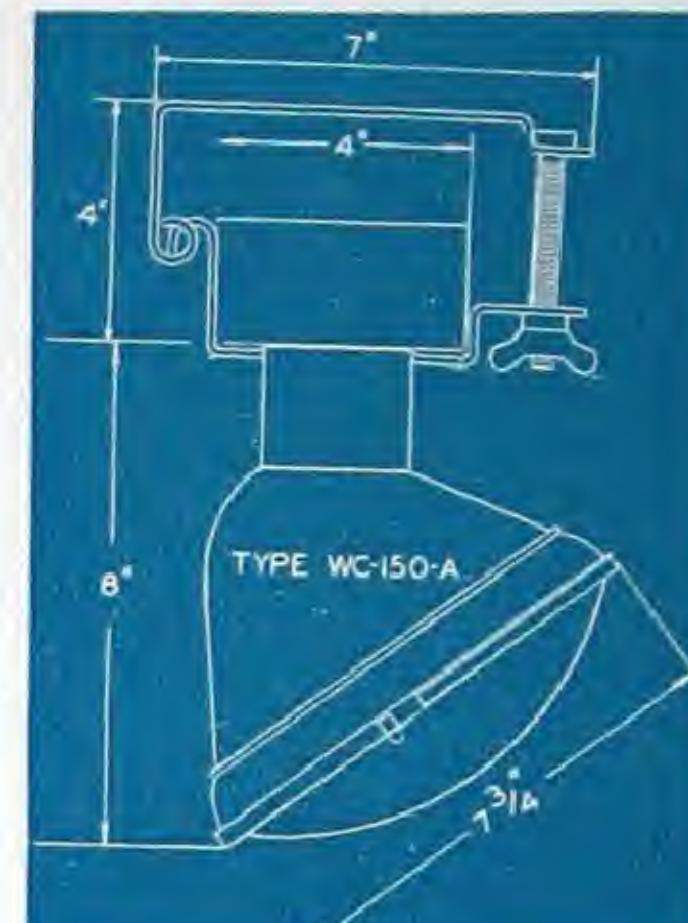
Window Reflector Troughs

WC-150



Both the straight and angle type reflector troughs in the 150 watt size are useful in small and medium-sized windows. They have high efficiency with this wattage and include the color selection and adjustability features.

WC-150A



LIST PRICES

Type WC-150—6" Centers—Minimum 150W—PS25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$14.00
If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00
Cat. No. WH4—Adjustable Brackets. For 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced 6-ft. on centers or less.....
List Price, Each \$4.00
Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$2.00
Shipping weight, 14 lbs. per foot



Blum's Vogue,
Chicago.
Alfred S. Alschuler,
Chicago, Arch.
Fuchs Electric Co.,
Chicago, Cont.

Type WC-150A—6" Centers—Minimum 150W—PS25 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.....
List Price, Per Foot \$15.00
If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit at each break in trough.....
List Price, \$4.00
Cat. No. WH4—Adjustable Brackets. For 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced 6-ft. on centers or less.....
List Price, Each \$4.00
Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....
List Price, Each \$2.00
Shipping weight, 14 lbs. per foot

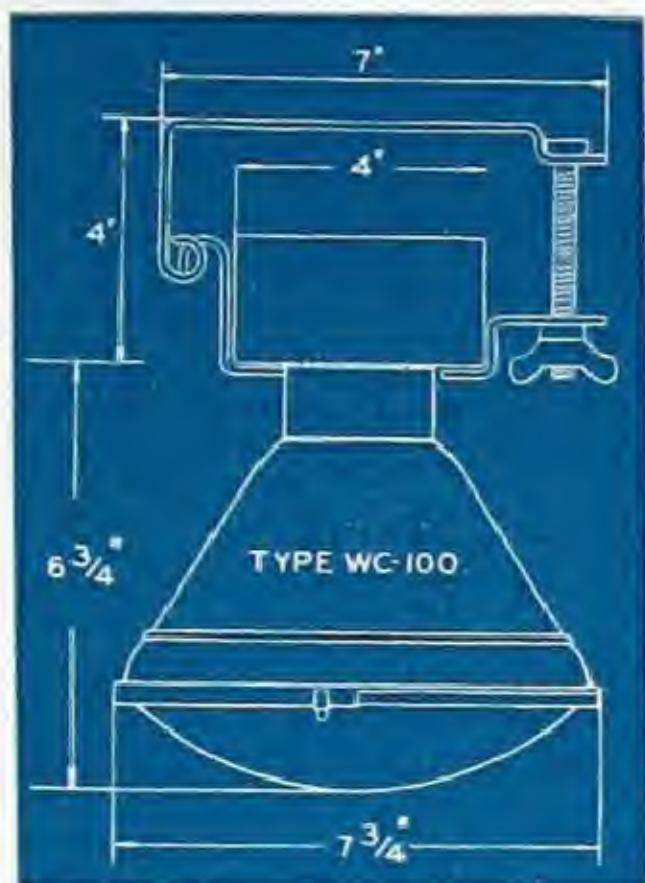


Wieboldt Department Stores, Chicago. Alfred S. Alschuler, Arch.
Fuchs Electric Co., Cont.

Window Reflector Troughs

WC-100

THIS is an excellent size unit for shallow or small area windows. It has all the features of the larger sizes, including the color choice and adjustability.



Type WC-100—6" Centers—Minimum 100W or 75W—A23 Lamps

Wiring box with socket properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.

List Price, Per Foot \$14.00

If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit, at each break in trough.....List Price, \$4.00

Cat. No. WH4—Adjustable Bracket for 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced 6-ft. on centers or less.....List Price, Each \$4.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....List Price, Each \$2.00

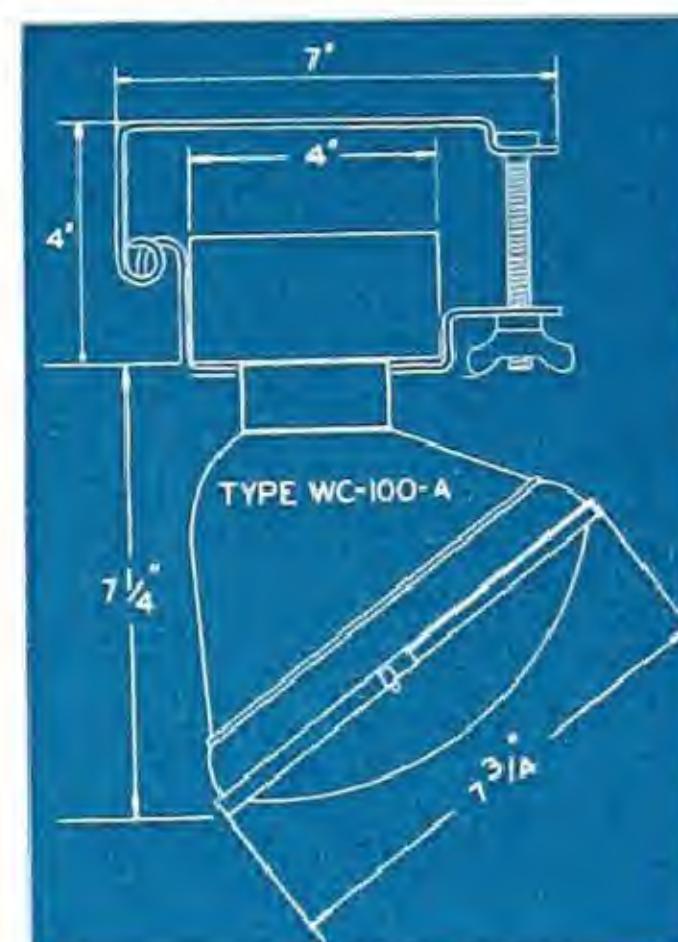
Shipping weight, 14 lbs. per foot.



Left: Sears
Roebuck
Miami Store.
Nimmons,
Carr and
Wright,
Arch.
Martin C.
Schwab,
Eng.
Harrington
Electric
Co., Elec.
Cont.

WC-100A

THIS is the angle type of the small unit and affords a close hanging type that distributes the light downward and toward the rear with great effectiveness.



Type WC-100A—6" Centers—Minimum 100W or 75W—A23 Lamps

Wiring box with sockets properly wired for colors and circuits (per specification), including individual spun copper chromium plated reflectors, with clear or natural colored convex shaped heat resisting diffusing roundels and retaining rings.

List Price, Per Foot \$15.00

If feed through connections from one trough to another is desired, including 3-ft. cord, receptacle and plug, add for each circuit, at each break in trough.....List Price, \$4.00

Cat. No. WH4—Adjustable Bracket for 2 x 4" trough for any drop from ceiling up to 12" (blueprint shows standard furnished unless otherwise specified). These brackets should be spaced 6-ft. on centers or less.....List Price, Each \$4.00

Extra glass roundels, clear or natural colored, blue, red, amber, green and canary.....List Price, Each \$2.00

Shipping weight, 14 lbs. per foot.



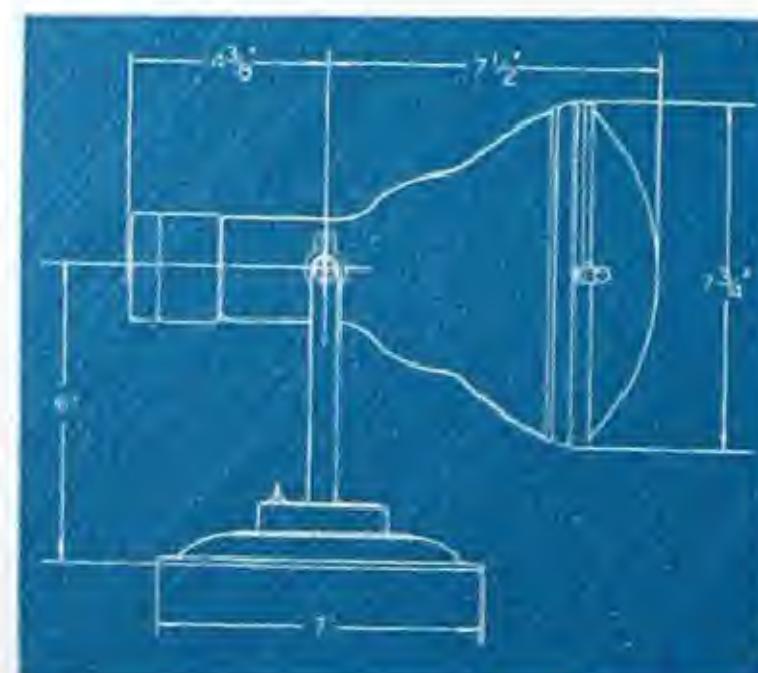
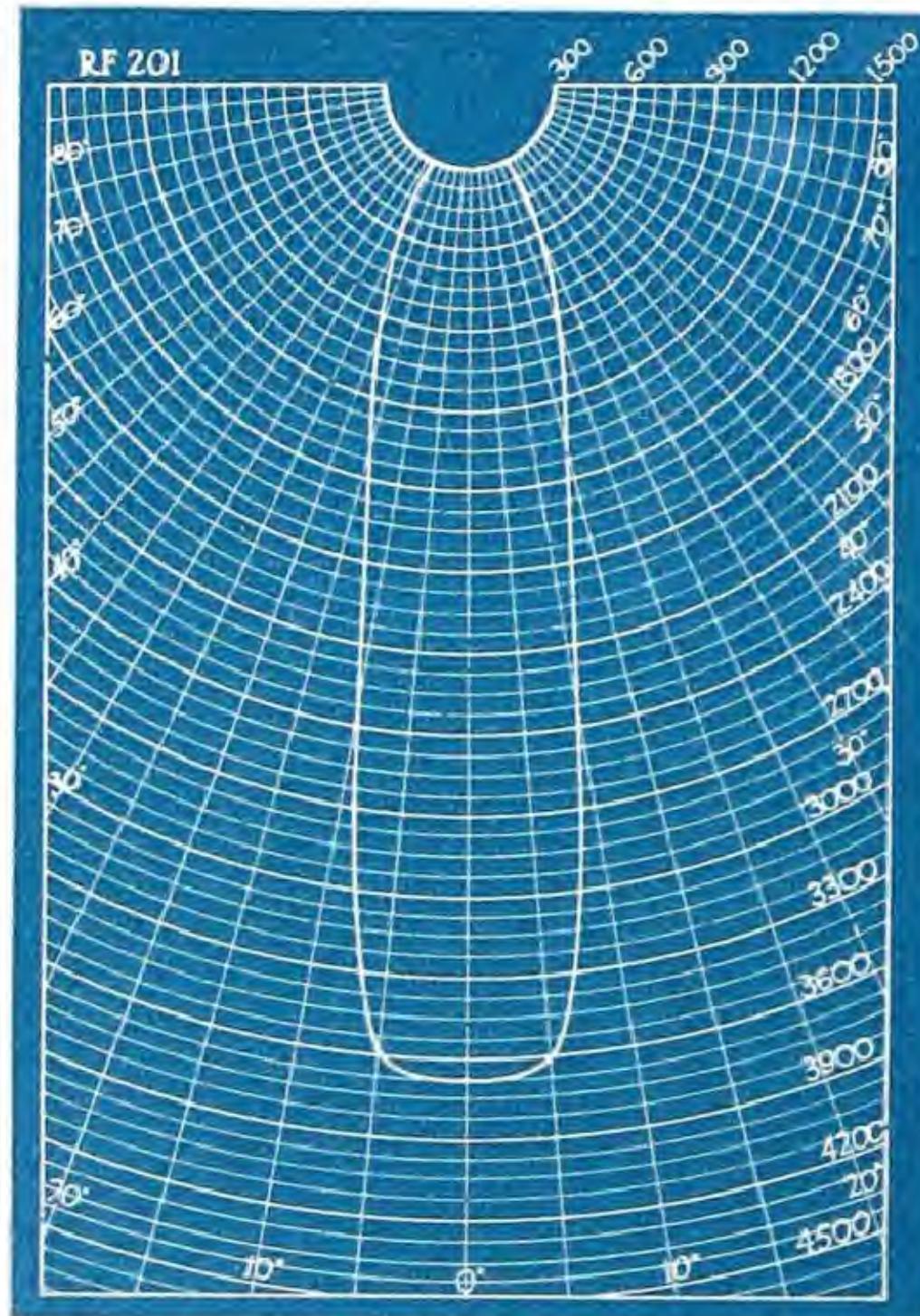
Right:
Wieboldt
Department
Stores.
Alfred S.
Alschuler,
Arch.
Fuchs Elec-
tric Co.,
Cont.

Reflector Flood Type RF201

IN THE use of spot or flood lighting from a single unit in various types of windows and on display pieces throughout the store, this will be found to be an exceptionally efficient unit. It is comparatively small in size and has complete adjustability. It can be placed standing on the floor, mounted against the ceiling, or side wall, and the light directed from any desired angle. It is equipped with either clear or colored roundels, and the new Major Slip Ring.



Use 200W
PS30 Lamp



Major Reflector Floods have a pressed steel base that is designed to stand on or fasten to flat surfaces. The thumb screw locks the revolving or swivel motion of the yoke when the desired position is obtained. The yoke gives the desired tilt. Combined, these two features give complete positional flexibility. A further feature is that the lower half of the base may be removed, leaving a secondary base which has holes and screws to mount on standard 4" octagon outlet box.

LIST PRICES

RF-201—Reflector Flood. Indoor reflector flood, complete with slip ring and one clear diffusing roundel (or color if specified), including 3-ft. cord and plug (no lamp).

List Price, Each \$14.00

RF-202—Reflector Flood. Temporary outdoor flood, complete with spring retaining ring and one clear diffusing roundel (or color if specified), including 3-ft. cord and plug (no lamp).

List Price, Each \$14.00

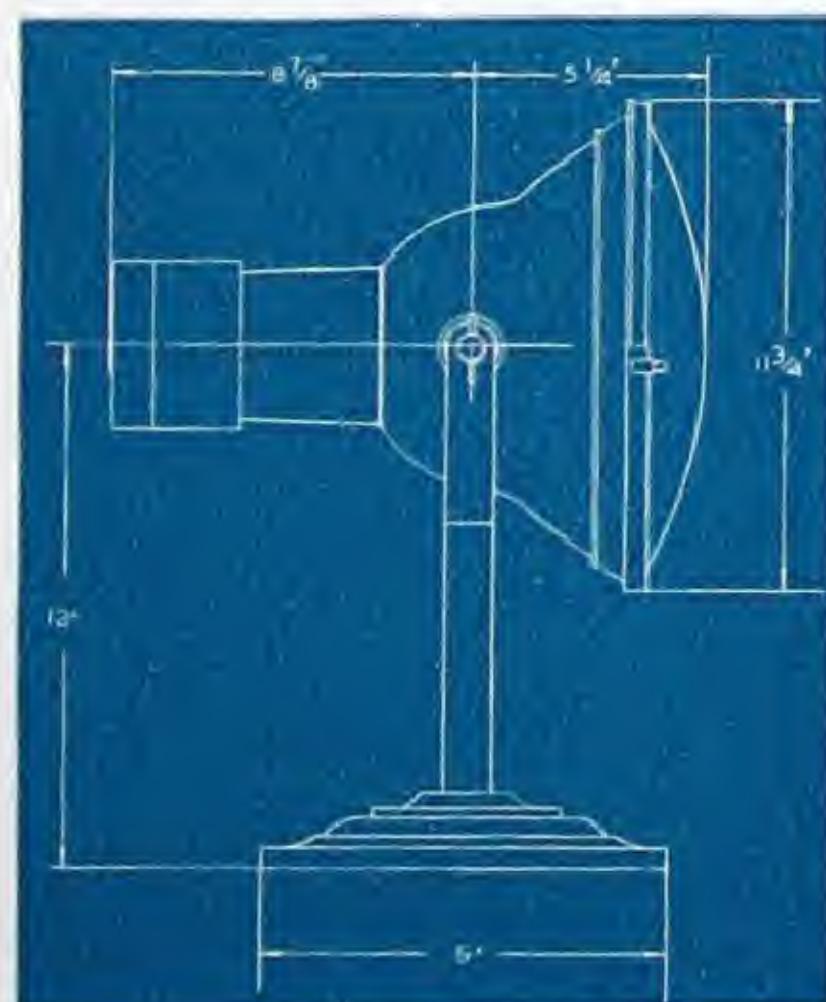
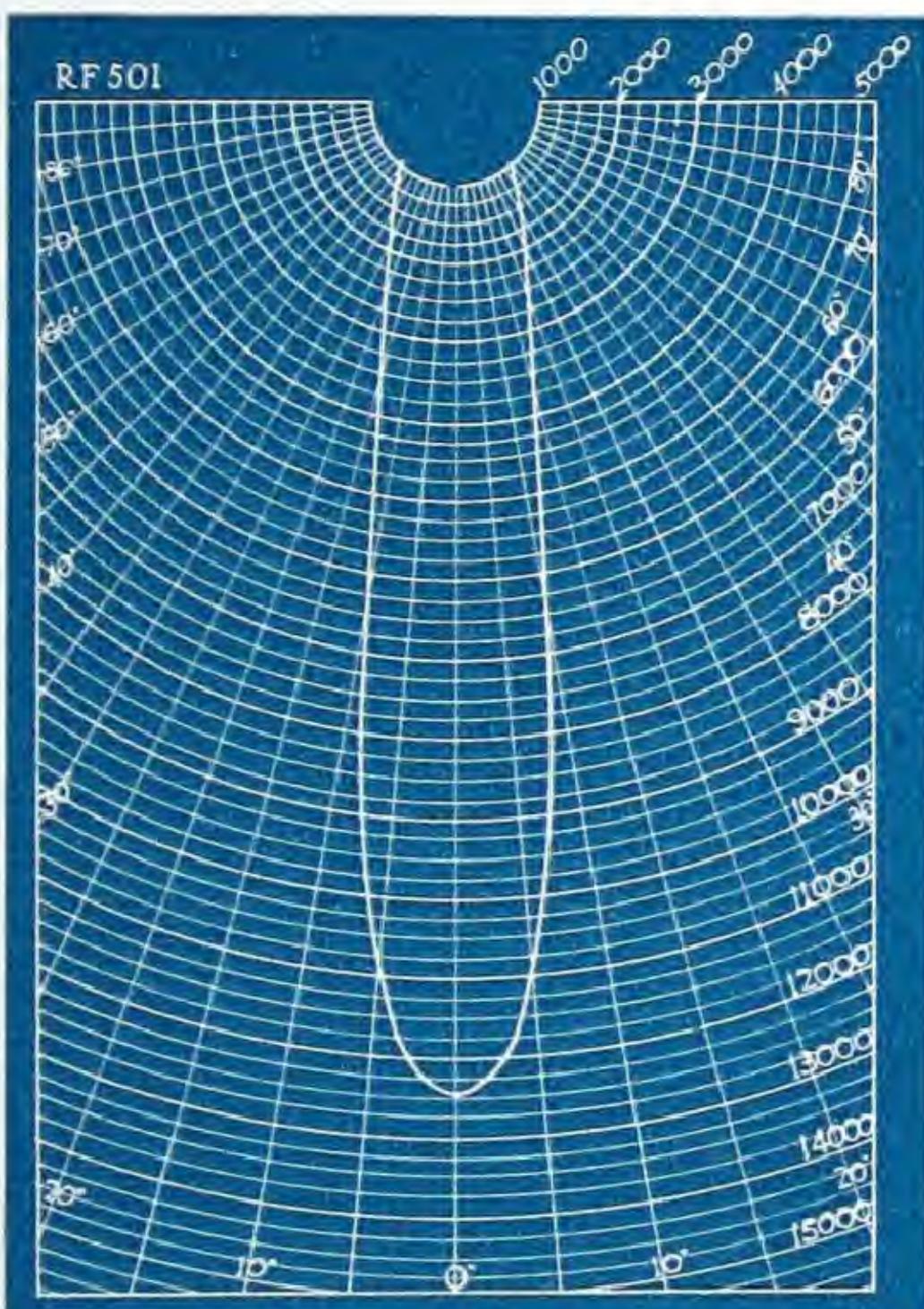
Complete dimensions are shown on the blueprint and the listing for clear and color roundels will be found on page 86. The listing for retaining rings for exterior use will be found on page 26. A complete description of the new Major slip ring is on page 21.

Reflector Flood Type RF501

PROBABLY the most practical reflector flood ever designed, this new Major product combines extreme adjustability and high lighting efficiency. It is as compact as this size of light source can be, and is so sturdily made that it has been used many times for temporary outside lighting. It is equipped with the new Major slip ring for retaining the roundel and can be fitted with any of the selection of clear or



Use 500W
PS40 or 300W
PS35 Lamp



color roundels. The lamp used is the 500W PS40 or 300W PS35 Mogul base lamp. This reflector comes in the narrow beam classification and projects a powerful flood of controlled light. The chromium plated reflector has so dense a surface that it will not collect dirt and can not crack, peel or chip.

LIST PRICES

RF-501—Reflector Flood—Indoor Flood, complete with slip ring and one clear or color diffusing roundel, including 3-ft. cord and plug (no lamp). **List Price, Each \$20.00**

RF-502—Reflector Flood. Temporary outdoor flood, complete with clear or color diffusing roundel and set screw retaining ring, including 3-ft. cord and plug (no lamp). **List Price, Each \$20.00**

Complete dimensions are shown on the blueprint and the listing for clear and color roundels will be found on page 86. The listing for retaining rings for exterior use will be found on page 26. A complete description of the new Major Slip Ring is on page 21.

The Strowger Tele-Chec System

THE Strowger Tele-Chec System has been developed and perfected to enable the management of a theater to make as full use as possible of the entire seating capacity, by maintaining constant contact between the various parts of the body of the house and the main entrance. By its means, the exact number of seats available in every section may be quickly and accurately transmitted to the lobby or foyer, resulting in the seating of waiting patrons immediately as seats become available.

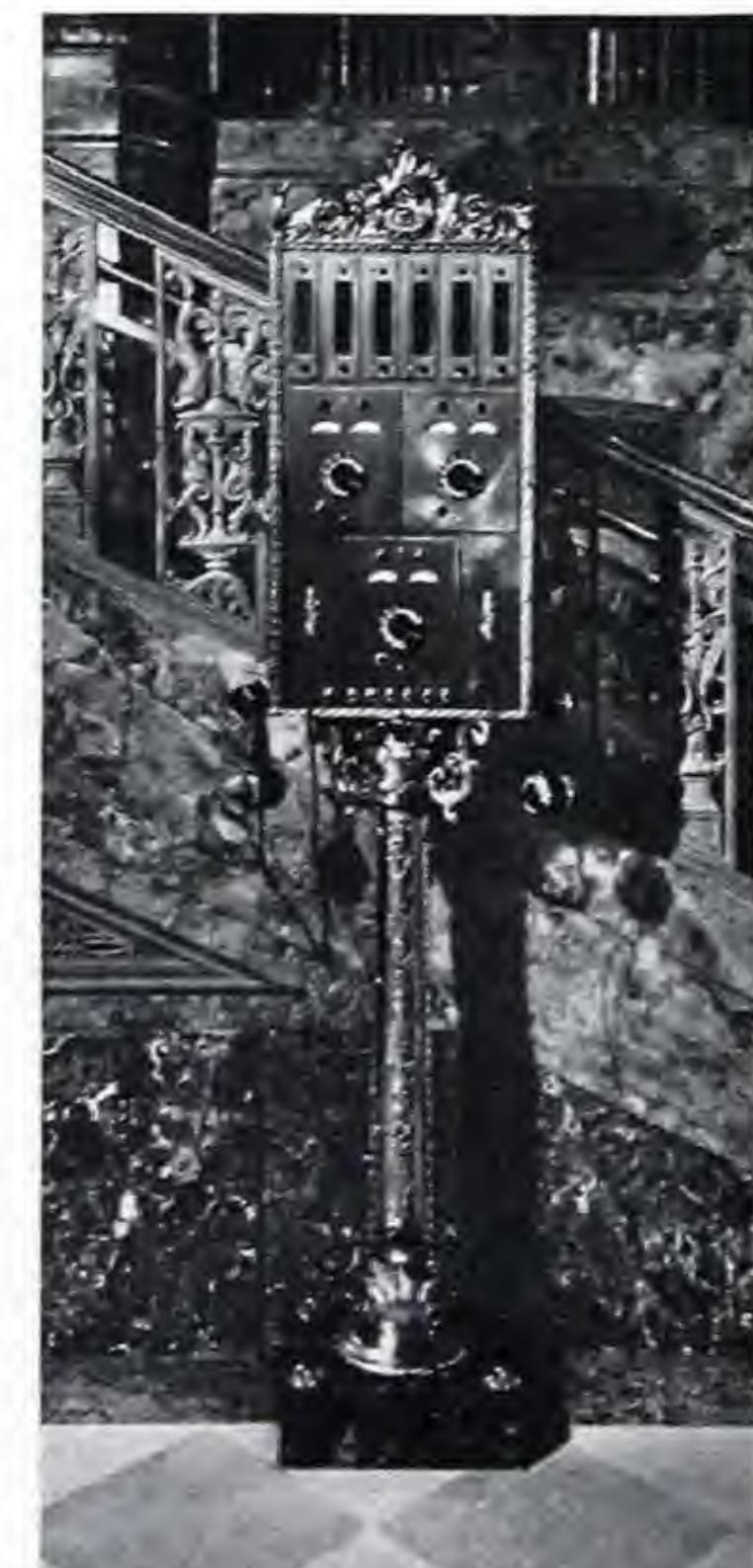


Sending unit used with Type 1 Tele-Chec System. Dimensions of face plate, 5 inches by 7 1/2 inches.

entrance or lobby, the signals appearing visually in the form of illuminated numbers on a display panel. In the case of larger theaters, several groups of receiving stations or combination stations may be necessary at strategic points, to control waiting patrons in different parts of the theater, and to relay information on to the main lobby.

No two houses are exactly alike in the floor arrangements or in the flow of patron traffic, so that no standard arrangement of Tele-Chec service can be made to fit all conditions. While the individual units are standardized as to mechanical design, they may be arranged in virtually any desired combination to meet individual sets of conditions. In most of the larger theaters, where there is a "hold-out" period at any time during the day or evening, the use of the Strowger Tele-Chec with the existing staff of ushers, will show a substantial saving in "seat minutes"—which, translated into revenue, means additional box office income through more scientific and

The system consists, in general, of a number of dial sending stations located in the various aisles, and a receiving station at the main entrance or in the main lobby. By operating the dial at the sending stations, the ushers in any aisle may signal the number of seats available in that aisle to the usher at the main entrance or lobby, the signals appearing visually in the form of illuminated numbers on a display panel. In the case of larger theaters, several groups of receiving stations or combination stations may be necessary at strategic points, to control waiting patrons in different parts of the theater, and to relay information on to the main lobby.



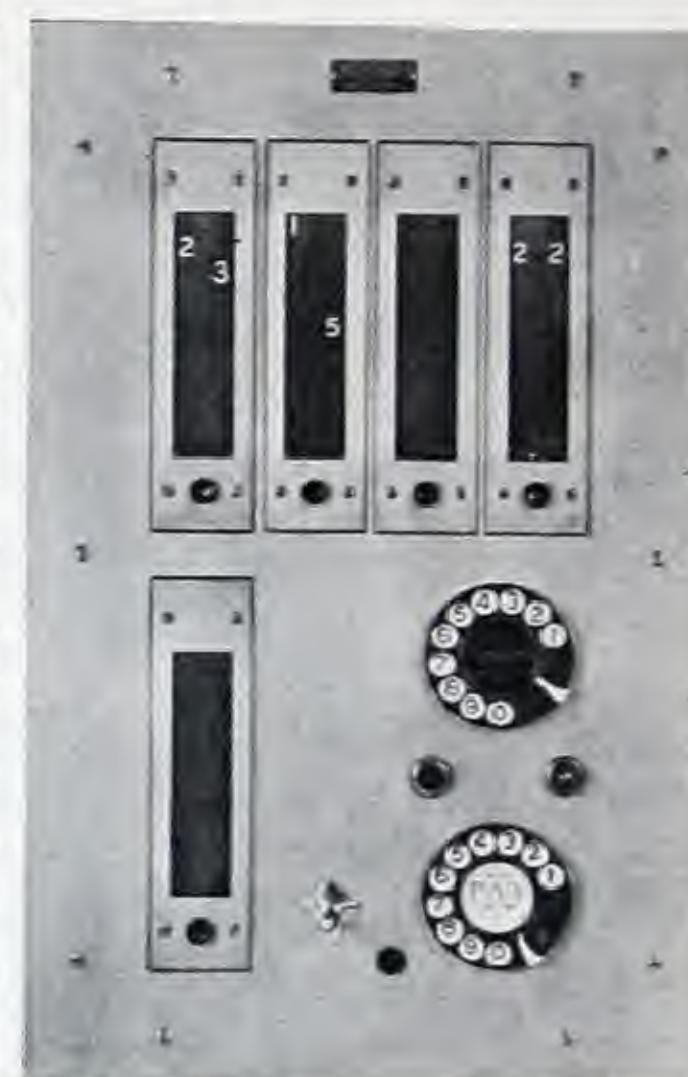
Artistic mounting used for Strowger Tele-Chec combination sending and receiving unit, situated in the main lobby of a large theater.

effective use of the existing seating capacity. Studies will be gladly made without cost or obligation, to show the management of any theater exactly what the Tele-Chec will do to utilize seating capacity more effectively during "hold-out" periods and to increase profits.

While the Strowger Tele-Chec System is a relatively new development, the apparatus of which it is built is time-tried and proven. The manufacturer of this equipment has had over forty years of experience in designing and building Strowger Automatic Dial Systems for public telephone exchanges throughout the world, and every element of equipment going into the Tele-Chec System, such as dials, relays, switches, lamps, etc., is characterized by the

highest qualities of durability and trouble-free operation.

In spite of the short time during which Strowger Tele-Chec has been on the market, it has already been adopted by many of the largest theater enterprises in the country. A partial list of theaters in which the system is now in use, or will be in the near future, includes the following: United Artists, Chicago; Paradise Theater, Chicago; Tivoli Theater, Chicago; Roosevelt Theater, Chicago; Gateway Theater, Chicago; United Artists, Detroit; Fisher Theater, Detroit; Paramount Theater, Brooklyn; Paramount Theater, Toledo; Mastbaum Theater, Philadelphia; Paramount Theater, Springfield, Mass.; Paramount Theater, Salem, Mass.; Paramount Theater, Lynn, Mass.; Paramount Theater, New Haven, Conn.; Paramount Theater, Middletown, N. Y.; Paramount Theater, Peekskill, N. Y.; Paramount Theater, Fort Wayne, Ind.; Paramount Theater, Denver, Colo.



Combination station having five receiving units, one sending unit and a dial for a P-A-X (automatic) telephone. The hook at the lower center of the panel is for the hand telephone (not shown). Dimensions of face plate, 14 1/2 inches by 22 5/8 inches.



Modern design of mounting used in the lobby of the theater effecting modern design.

The Strowger P-A-X (Private Automatic Exchange)

A PRIVATE automatic telephone system of the Strowger Automatic Dial type, adapted to the interior communication needs of theaters and other business organizations.

GENERAL—The Strowger P-A-X is primarily an automatic interior telephone system of the familiar dial type, consisting of as many dial telephones as may be required, an automatic switchboard for setting up the connections, the necessary wiring for connecting the telephones to the switchboard, and a storage battery and charging device. Only one pair of wires is needed for connecting each telephone to the switchboard.

The Strowger P-A-X is intended for use as an isolated system for interior communication service only, having no connection with the public telephone service.

TELEPHONES—The telephones of the P-A-X are

similar to the automatic telephones used for ordinary public exchange service. Each telephone is equipped with a standard calling dial, with finger holes numbered from 1 to 0. Telephones are furnished in the conventional wall and desk types and in the popular cradle types. There are also types for special purposes, such as elevator telephones, hand telephones, flush telephones, etc. The cradle type telephones (Monophones) may also be had in a variety of special finishes, such as mahogany, walnut, ivory, etc., with metal parts either gold or chromium plated.

AUTOMATIC SWITCHBOARDS—This apparatus automatically sets up the telephone connections, and consists of standard, proven units whose dependable and trouble-free operation is assured by the manufacturer's forty years of experience in producing public dial telephone systems in use throughout the world. The mechanism may be placed in any dry space which may be convenient or available. The apparatus is entirely self-contained and sufficiently attractive in design and finish to warrant installation in a conspicuous place.

The switchboard is furnished in a number of sizes, depending upon the ultimate capacity required. The larger installations are capable of indefinite expansion without change in original installation.



P-A-X Desk Type Monophone
(Type 1-A)



P-A-X Wall Monophone
(Type 3)

SPECIAL SERVICES—In addition to interior telephone service, certain types of Strowger P-A-X may be equipped to render affiliated services, all controlled and operated by the automatic switchboard and involving but slight extra wiring or expense. Any or all of these services may be included in the initial installation or added later as required.

These services include code call for all types except 2 and 10-A (to send audible signals to all parts of an establishment to locate a person not at his desk); conference wire (providing for a telephone conference); emergency alarm (for fire or other emergencies); and watchman supervision (for recording and supervising the movements of watchmen).

GENERAL DESCRIPTIONS OF TYPES—The following descriptions will give an idea of the general characteristics of the different types of P-A-X's:

Type 1—Common talking, selective ringing. Any number of telephones, but only one conversation at a time. Code call if desired.

Type 10-A—10 lines, 2 simultaneous conversations.

Type 20-A—20 lines, 4 simultaneous conversations.

Type 2—25 lines, three simultaneous conversations

Type 25—25 to 50 initial lines, 7 simultaneous conversations. Code call and other special services. Expandable.

Larger types specially engineered to meet needs of clients.

METHOD OF OPERATION—The person calling lifts the receiver in the customary manner and the connection is then made by rotating the dial. If station 65 is wanted, the finger is placed in the dial hole over the figure 6 and drawn around to the finger stop. The finger is then removed, and the dial turns back to its original position. This operation is repeated for the figure 5.

The bell at station 65 then rings at intervals until the called station answers, or until the receiver is hung up at the calling station. Types 1, 10A and 20A ring only once, corresponding to the last digit dialed. If the station wanted is engaged, a distinctive buzz is heard by the person calling, connection then being released by hanging up the receiver.



The Type 10-A Strowger P-A-X, equipped for 10 lines. The covers have been removed in this view, to show the compact arrangement of the switches.

Heat Resisting Roundels

Major Pyrex Roundels are molded of the finest heat-resisting glass and are the only ones supplied, to our knowledge, in genuine primary colors.



When used with Major equipment these Roundels provide the best equipment obtainable for color lighting. They are safe to use, as heat will not break them.

Diameter 2³/₄"

List Price, Each \$0.50

| | |
|-----------------------|--------|
| Clear Diffusing..... | 275-CD |
| Red Diffusing..... | 275-RD |
| Blue Diffusing..... | 275-BD |
| Yellow Diffusing..... | 275-YD |
| Amber Diffusing..... | 275-AD |
| Green Diffusing..... | 275-GD |

Shipping Weight 1/2 lb. each

Diameter 3³/₄"

List Price, Each \$1.00

| | |
|-----------------------|--------|
| Clear Diffusing..... | 375-CD |
| Red Diffusing..... | 375-RD |
| Blue Diffusing..... | 375-BD |
| Yellow Diffusing..... | 375-YD |
| Amber Diffusing..... | 375-AD |
| Green Diffusing..... | 375-GD |

Shipping Weight 1 lb. each

Diameter 5⁵/₈"

List Price, Each \$2.00

| | |
|-----------------------|--------|
| Clear Diffusing..... | 558-CD |
| Red Diffusing..... | 558-RD |
| Blue Diffusing..... | 558-BD |
| Yellow Diffusing..... | 558-YD |
| Amber Diffusing..... | 558-AD |
| Green Diffusing..... | 558-GD |

Shipping Weight 3 lbs. each

Diameter 7 9/16"

List Price, Each \$3.00

| | |
|-----------------------|--------|
| Clear Diffusing..... | 758-CD |
| Red Diffusing..... | 758-RD |
| Blue Diffusing..... | 758-BD |
| Yellow Diffusing..... | 758-YD |
| Amber Diffusing..... | 758-AD |
| Green Diffusing..... | 758-GD |

Shipping Weight 7 lbs. each

Diameter 11 1/4"

List Price, Each \$6.00

| | |
|--------------------------|----------|
| Clear Non-Diffusing..... | 1125-CND |
| Clear Diffusing..... | 1125-CD |
| Clear Spread Lens..... | 1125-CS |
| Red Diffusing..... | 1125-RD |
| Blue Diffusing..... | 1125-BD |
| Yellow Diffusing..... | 1125-YD |
| Amber Diffusing..... | 1125-AD |
| Green Diffusing..... | 1125-GD |

Shipping Weight 10 lbs. each

Diameter 15 3/4"

List Price, Each \$15.00

| | |
|--------------------------|----------|
| Clear Non-Diffusing..... | 1575-CND |
| Clear Diffusing..... | 1575-CD |
| Red Diffusing..... | 1575-RD |
| Blue Diffusing..... | 1575-BD |
| Yellow Diffusing..... | 1575-YD |
| Amber Diffusing..... | 1575-AD |
| Green Diffusing..... | 1575-GD |

Shipping Weight 14 lbs. each

New Heat-resisting Gelatine

Golden
Red
Blue
Green
Amber
Purple
Orange
Frost
Clear

We recommend this new heat-resisting gelatine when other than primary colors furnished in the Roundels are desired, or for such lighting as is of a few months' duration rather than years of use. They hold the color longer than the usual type of gelatine, and because they will not crack; can be used outdoors for limited exposure and will withstand rain.

LIST PRICE

Catalog No. GWS (specify color desired) sheets 20 in. by 20 in.

Each \$2.00

List Price.....

Catalog No. GWR (specify color desired) rolls 36 inches wide.

Per Lineal Foot, \$1.30

Accessories

Pipe Clamps



Standard Pipe Clamp Stand. For supporting Floodlight or other units on pipe or other round surface. Clamp capacity 1" to 2".

Cat. No. 32. List Price, Each \$4.00

Mogul Pipe Clamp Stand. For supporting spotlights, olivettes or heavier units on pipe or other round surface. Clamp capacity 1" to 2".

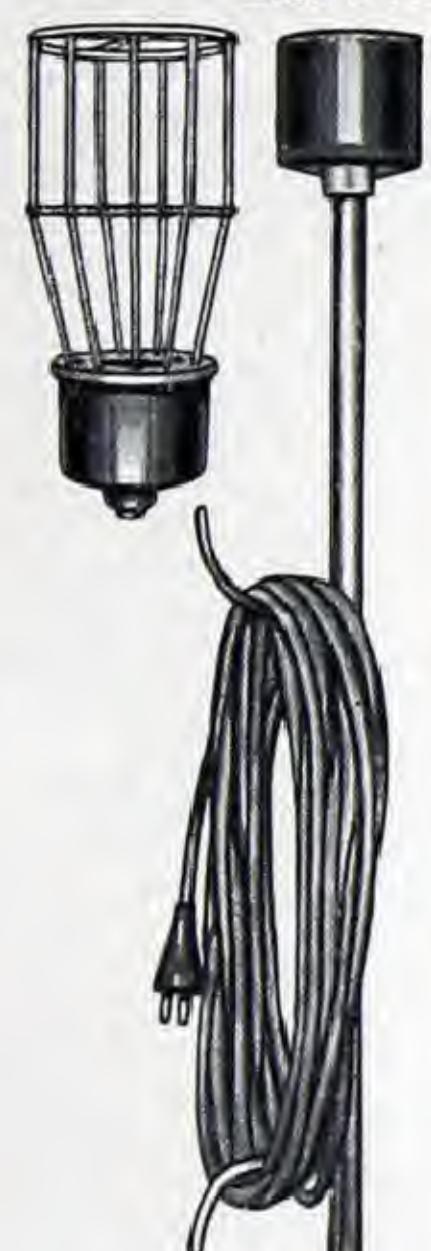
Cat. No. 64. List Price, Each \$6.00

Socket Extension



Some types of Major Reflectors permit a smaller wattage lamp to be used with the extension socket illustrated herewith.

Cat. No. SE Edison Base Extension
List Price..... Each \$0.20



Cleaner Stands

Cast Aluminum Socket Cup Cleaners Stand, including new molded socket, with or without wire guard, mounted on 1/2" pipe stand, with cable hanger and 14" cast iron base. Equipped with 50 feet of molded rubber cable and unbreakable molded rubber plug.

Catalog No. CS54 with 54-B medium base socket, No. 18 wire, for lamp size up to 250 watts.

List Price..... Each \$20.00

Cat. No. CS54G—with 54-B medium base socket. No. 18 wire for lamp, size up to 250 watts, equipped with wire guard.

List Price..... Each \$24.00

Cat. No. CS55 with 55C Mogul socket. No. 14 wire, for lamp size from 300 to 1,000 watts.

List Price..... Each \$24.00

Cast Iron Bases



Cast Iron Base, with standard pipe thread.

Cat. No. CIB-8—Solid type 1/2" pipe thread; approximate weight, 8 lbs. 8" diameter.

List Price..... \$4.00

Cat. No. CIB-14—Open type, 1/2" pipe thread; approximate weight, 10 lbs. 14" diameter.

List Price..... \$5.00

Cat. No. CIB-18—Open type, 1" thread; approximate weight, 14 lbs. 18" diameter.

List Price..... \$6.00



Slip Connectors

Cat. No. 1115..... List, \$2.00
If not otherwise ordered will ship this one.
One Cable Hole, Male End.
One Cable Hole, Female End.

Cat. No. 2215..... List, \$2.00
Two Cable Holes, Male End.
Two Cable Holes, Female End.

Cat. No. 1215..... List, \$2.00
One Cable Hole, Female End.
Two Cable Holes, Male End.

Cat. No. 2115..... List, \$2.00
Two Cable Holes, Female End.
One Cable Hole, Male End.

Above are all 15 amp. capacity. Other sizes and types prices upon request.

Multiple Conductor Borderlight Cable

Extra Flexible N. E. C. S. Construction

Made of two or more standard flexible conductors (illustration shows 20 conductors) each conductor with rubber insulation to national code thickness and braided, thoroughly saturated with a preservative compound. These conductors are cabled and braided overall with two braids impregnated with waterproof compound.

State number and size of conductors.

6 to 36 Conductor Cable
in stock for immediate shipment.

Prices on application.



Stage Plugs

Major Stage Plugs, exceptionally well built of finest materials, are of the universal type and can be used in any make receptacle designed to receive this type plug.

Cat. No. 800—Major Incandescent Stage Plugs.
List Price..... Each \$2.00

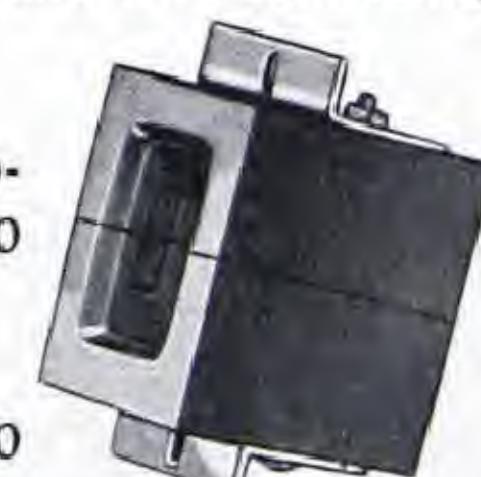
Cat. No. 800A—Major Arc Stage Plug.
List Price..... Each \$2.00

Plug Receptacles

Major Receptacles are all one piece moulded with heavy copper contacts, substantial mounting ears and wire connecting lugs.

Cat. No. 50—Major Incandescent Receptacle. List Price..... Each, \$2.00

Cat. No. 50A—Major Arc Receptacle.
List Price..... Each \$2.00



List of Major Installations

SCHOOLS AND UNIVERSITIES

| NAME | LOCATION | NAME | LOCATION | NAME | LOCATION |
|--------------------------------------|--------------------|-------------------------------------|----------------------|----------------------------------|-------------------------|
| Alton High School | Alton, Ill. | High School | Flint, Mich. | North Side High School | Omaha, Nebr. |
| Alvernia High School | Chicago, Ill. | High School | Ft. Smith, Ark. | North Little Rock High School | North Little Rock, Ark. |
| Art Institute | Chicago, Ill. | High School | Hibbing, Minn. | Owosso High School | Owosso, Mich. |
| Atherton High School | Louisville, Ky. | High School | Parsons, Kans. | Patrick Henry Jr. High School | Minneapolis, Minn. |
| Austin High School | Chicago, Ill. | High School | Sheboygan, Wis. | Pleasantville High School | Pleasantville, N. J. |
| Bascom Hall University of Wis. | Milwaukee, Wis. | High School | Sheffield, Ala. | Roosevelt High School | Minneapolis, Minn. |
| Bay View High School | Madison, Wis. | High School | St. Petersburg, Fla. | Sacred Heart Academy | Detroit, Mich. |
| Birmingham Southern College | Birmingham, Ala. | High School | Wichita, Kansas | St. Mary's School | Little Rock, Ark. |
| Bryant, Jr., High School | Minneapolis, Minn. | Highland Jr. High School | Louisville, Ky. | St. John's University | Collegeville, Minn. |
| Carter Harrison High School | Chicago, Ill. | Hirsch Jr. High School | Chicago, Ill. | Senior High School | Dodge City, Kans. |
| Cass Technical High School | Detroit, Mich. | Hutchins School | Detroit, Mich. | Senior High School | Little Rock, Ark. |
| Central High School | Bay City, Mich. | Irving School | Lincoln, Nebr. | Scripps College | Claremont, Calif. |
| Central High School | Columbus, Ohio | Jefferson Jr. High School | Minneapolis, Minn. | Shreveport Jr. High School | Shreveport, La. |
| Central High School | Detroit, Mich. | John Baptist R. C. H. School | Bangor, Maine | South Orange and Maplewood H. S. | South Orange, N. J. |
| Central High School | Minneapolis, Minn. | John Hay High School | Cleveland, Ohio | Southern Jr. High School | Louisville, Ky. |
| Central Junior High School | Kansas City, Mo. | John Marshall High School | Minneapolis, Minn. | Southwest Jr. High School | Battle Creek, Mich. |
| Central Junior High School | Lincoln, Nebr. | Jones Library | Amherst, Mass. | State Teachers' College | Minot, N. D. |
| Centralia High School | Centralia, Ill. | Jordan Jr. High School | Minneapolis, Minn. | Sullivan Jr. High School | Chicago, Ill. |
| College Hall, Normal School | Spearfish, S. D. | Joyce School | Detroit, Mich. | Thomas M. Cooley High School | Detroit, Mich. |
| Commercial and Technical High School | Omaha, Nebr. | Junior High School | Pontiac, Mich. | Thomas Jefferson High School | Port Arthur, Texas |
| Crane Technical High School | Chicago, Ill. | Junior High School | Chisholm, Minn. | Twenty-third District School | Cincinnati, Ohio |
| Cretin High School | St. Paul, Minn. | Junior High School | Montgomery, Ala. | University of Kansas | Lawrence, Kans. |
| Dana Hall School | Wellesley, Mass. | Kingston High School | Kingston, Pa. | University of Michigan | Ann Arbor, Mich. |
| Denfield High School | Duluth, Minn. | Lakeview High School | Chicago, Ill. | University of Pennsylvania | Philadelphia, Pa. |
| East End Jr. High School | Lancaster, Pa. | LaSalle-Peru Township High School | LaSalle, Ill. | University of South Dakota | Vermilion, S. D. |
| East Side Jr. High School | Terre Haute, Ind. | Lincoln Junior High School | Minneapolis, Minn. | Union High School | Jackson, Miss. |
| Eastern High School | Lansing, Mich. | Livingston State Normal | Livingston, Ala. | Washburn Jr. High School | Minneapolis, Minn. |
| Everett Jr. High School | Lincoln, Nebr. | Mercy High School | Chicago, Ill. | Webster Groves High School | Webster Groves, Mo. |
| Font Bonne College | St. Louis, Mo. | Michigan State Nor. Coll. | Mt. Pleasant, Mich. | West High School | Minneapolis, Minn. |
| Gibbs High School | Little Rock, Ark. | Mt. Hebron School | Montclair, N. J. | Western Hills High School | Cincinnati, Ohio |
| Glendale Union High School | Glendale, Calif. | Museum Hall University of Minnesota | Minneapolis, Minn. | West Senior High School | Green Bay, Wis. |
| Great Falls High School | Great Falls, Mont. | New High School | Downers Grove, Ill. | Western State College | Gunnison, Colo. |
| Grosse Pointe High School | Detroit, Mich. | New High School Bldg. | Great Bend, Kans. | Westport Jr. High School | Kansas City, Mo. |
| High School | Aurora, Minn. | New High School | Lebanon, Ohio | Whittier Jr. High School | Lincoln, Nebr. |
| High School | Danville, Ill. | Nicholas Senn High School | Chicago, Ill. | | |
| High School | Eau Claire, Wis. | Nordstrom School | Detroit, Mich. | | |
| | | Normal School | Westchester, Pa. | | |
| | | Northeast High School | Minneapolis, Minn. | | |

FRATERNAL BUILDINGS

| | | | | | |
|------------------------------------|----------------------|--------------------------|----------------------|-------------------------|--------------------|
| Acca Temple | Richmond, Va. | Masonic Temple | Elizabeth, N. J. | Scottish Rite Cathedral | Denver, Colo. |
| Ainad Temple | East St. Louis, Ill. | Masonic Temple | Hastings, Nebr. | Scottish Rite Cathedral | Bloomington, Ill. |
| Akdar Temple | Tulsa, Okla. | Masonic Temple | Providence, R. I. | Scottish Rite Cathedral | Fort Scott, Kans. |
| B'Nai B'rith Temple | Los Angeles, Calif. | Masonic Temple | Quincy, Mass. | Scottish Rite Cathedral | Galveston, Texas |
| Coudersport Consistory | Coudersport, Pa. | Masonic Temple | St. Louis, Mo. | Scottish Rite Cathedral | Houston, Texas |
| Elf Kuhrafeh Shrine Temple | Saginaw, Mich. | Masonic Temple | Salt Lake City, Utah | Scottish Rite Cathedral | Kansas City, Mo. |
| El Jebel Shrine Temple | Denver, Colo. | Masonic Temple | Sioux City, Iowa | Scottish Rite Cathedral | Montgomery, Ala. |
| Elks' Club | Louisville, Ky. | Masonic Temple | Topeka, Kans. | Scottish Rite Cathedral | Nashville, Tenn. |
| Elks' Temple | S. Hibbing, Minn. | Mirza Temple | Pittsburgh, Kans. | Scottish Rite Cathedral | New Castle, Pa. |
| Knights of Columbus Bldg. | Springfield, Ill. | Mizpah Temple | Ft. Wayne, Ind. | Scottish Rite Cathedral | Pasadena, Calif. |
| Knights of Columbus Memorial Bldg. | Chicago, Ill. | Moose Temple | Detroit, Mich. | Scottish Rite Cathedral | Philadelphia, Pa. |
| Masonic Temple | Cincinnati, Ohio | Philadelphia Consistory | Philadelphia, Pa. | Scottish Rite Cathedral | St. Louis, Mo. |
| Masonic Temple | Dayton, Ohio | Rochester Masonic Temple | Rochester, N. Y. | Scranton Masonic Temple | Scranton, Pa. |
| Masonic Temple | Decatur, Ill. | Sahara Temple | Pine Bluff, Ark. | Shrine Temple | Cedar Rapids, Ia. |
| Masonic Temple | Detroit, Mich. | Scottish Rite Cathedral | Buffalo, N. Y. | Y. M. C. A. | Minneapolis, Minn. |
| | | Scottish Rite Cathedral | Cedar Rapids, Ia. | York Masonic Temple | Long Beach, Calif. |
| | | | | Za-Ga-Zig Temple | Des Moines, Iowa |

MISCELLANEOUS LIST

| | | | | | |
|-------------------------------|---------------------|--|----------------------|---------------------------------------|------------------------|
| Alton State Hospital | Alton, Ill. | Geist Fountain Job | Philadelphia, Pa. | Municipal Auditorium | Milwaukee, Wis. |
| Art Institute | Chicago, Ill. | Hotel St. George Ball Room | Brooklyn, N. Y. | Municipal Auditorium | Houston, Texas |
| Artists' Incorporated | Tampa, Fla. | Hotel Jefferson | St. Louis, Mo. | Municipal Auditorium | San Antonio, Texas |
| Auditorium & Gymnasium | Winona, Minn. | Hudson Stores | Detroit, Mich. | Municipal Auditorium | Memphis, Tenn. |
| Battle Creek College Library | Battle Creek, Mich. | Industrial Mutual Ass'n Bldg. | Flint, Mich. | Municipal Auditorium | Wichita Falls, Texas |
| Book Cadillac Hotel | Detroit, Mich. | Irene Kaufman Job | Pittsburgh, Pa. | Mt. States Tel. & Tel. Co. Auditorium | Denver, Colo. |
| Cadillac Lodge, A. F. & A. M. | Minneapolis, Minn. | Irvine Auditorium, U. of Pa. | Philadelphia, Pa. | Mt. St. Vincent Auditorium | Mt. St. Vincent, N. Y. |
| Carpenter Bldg. | Milwaukee, Wis. | Joslyn Memorial Bldg. | Omaha, Nebr. | | |
| Chamber of Commerce Bldg. | Jacksonville, Fla. | Kansas Memorial Building | Chanute, Kansas | H. T. Parsons Residence Job | Long Beach, Cal. |
| Cinderella Dance Hall | St. Louis, Mo. | Magery Reed Mayo Mem. Hall | Denver, Colo. | Pershing Palace Cafe | Chicago, Ill. |
| Detroit Edison Auditorium | Detroit, Mich. | Memorial Hall | Joplin, Mo. | Press Club Job | Washington, D. C. |
| Dixon State Hospital | Dixon, Ill. | Memorial Hall | Cedar Rapids, Ia. | Recreation Building | Louisville, Ky. |
| Driscoll's Danceland | Chicago, Ill. | Memorial Hall | Racine, Wis. | Recreation Job | Jersey City, N. J. |
| Earl C. Anthony Job | Los Angeles, Calif. | Merry Garden Ball Room | Chicago, Ill. | Riviera Annex | Detroit, Mich. |
| Earl C. Anthony Job | Oakland, Calif. | Michigan Bell Tele. Auditorium | Detroit, Mich. | San Angelo City Hall & Aud. | San Angelo, Texas |
| East Lansing Development Co. | Lansing, Mich. | Miller Amusement Co. | Wichita, Kansas | San Carlos Ball Room | Chicago, Ill. |
| Fair Park Auditorium | Dallas, Texas | Million Dollar Pier | Atlantic City, N. J. | San Pedro Park Aud. | San Antonio, Texas |
| Fobes Hall of Science | Yankton, S. D. | Montevallo Audit. & Admin. Bldg. | Montevallo, Ala. | S. M. U. Auditorium | Dallas, Texas |
| | | Municipal Aud.—Tuberculosis Sanitarium | Chicago, Ill. | Smoot Amusement Company | Parkersburg, W. Va. |
| | | | | South Office Building | Harrisburg, Pa. |
| | | | | State Fairgrounds | Springfield, Ill. |
| | | | | Union Gas & Electric Co. Bldg. | Cincinnati, O. |

List of Major Installations

THEATRES

| NAME | LOCATION | NAME | LOCATION | NAME | LOCATION |
|--------------------------------|---------------------------|------------------------------|--------------------------|-------------------------------------|-----------------------|
| Alhambra Theatre | Des Moines, Ia. | Illinois Theatre | Chicago, Ill. | Paramount Theatre | Lynn, Mass. |
| Aloha Theatre | Honolulu, Hawaii | Indiana Theatre | Terre Haute, Ind. | Paramount Theatre | New York City, N. Y. |
| Ambassador Theatre | St. Louis, Mo. | Ironwood Theatre | Ironwood, Mich. | Paramount Theatre | Springfield, Mass. |
| American Theatre | Roanoke, Va. | Irving Theatre | Chicago, Ill. | Parthenon Theatre | Hammond, Ind. |
| Apollo Theatre | Chicago, Ill. | Jefferson Theatre | Beaumont, Texas | Penniman & Allen Theatre | Northville, Mich. |
| Asbury Park Thea. & Conv. Hall | Asbury Park, N. J. | Jeffrey Theatre | Chicago, Ill. | Picadilly Theatre | Chicago, Ill. |
| Ascher's Terminal Theatre | Chicago, Ill. | Junior Orpheum | Kansas City, Mo. | Plaza Theatre | Waterloo, Iowa |
| Avalon Theatre | Chicago, Ill. | Junior Orpheum | Los Angeles, Calif. | People's Theatre | Chicago, Ill. |
| Aztec Theatre | San Antonio, Texas | Junior Orpheum Theatre | Minneapolis, Minn. | Polk Theatre | Lakeland, Fla. |
| Bala Cynwyd Theatre | Cynwyd Station, Pa. | Junior Orpheum Theatre | San Francisco, Calif. | Portland Theatre | Portland, Oregon |
| Bayshore Theatre | Bay Shore, L. I., N. Y. | Junior Orpheum | Wichita, Kansas | Pottstown Opera House | Pottstown, Pa. |
| Belasco Theatre | Los Angeles, Calif. | Keith Theatre | Akron, Ohio | Princess Theatre | Columbus, Miss. |
| Bente Theatre | Chicago, Ill. | Keith Theatre | Atlanta, Ga. | Publix Theatre | Denver, Colo. |
| Birmont Theatre | Montgomery, Ala. | Keith's 105th St. Theatre | Cleveland, Ohio | Publix Theatre | Knoxville, Tenn. |
| Boyd Theatre | Philadelphia, Pa. | Keith's Palace Theatre | Cleveland, Ohio | Rapides Opera House | Alexandria, La. |
| Brown Theatre | Louisville, Ky. | Keith's Theatre | Dayton, Ohio | Raulf Theatre | Oshkosh, Wis. |
| Capitol Theatre | Chicago, Ill. | Keith's Allen Uptown Theatre | Detroit, Mich. | Rialto Theatre | Elgin, Ill. |
| Capitol Theatre | Davenport, Iowa | Keswick Theatre | Glenside, Pa. | Rialto Theatre | Louisville, Ky. |
| Capitol Theatre | Detroit, Mich. | King's Theatre | St. Louis, Mo. | Rialto Theatre | Rockford, Ill. |
| Capitol Theatre | Flint, Mich. | Kirby Theatre | Houston, Texas | Rialto Theatre | Waterloo, Iowa |
| Capitol Theatre | Madison, Wis. | Koenigstein Theatre | Norfolk, Nebr. | Ritz Theatre | Birmingham, Ala. |
| Capitol Theatre | St. Paul, Minn. | Lafayette Square Theatre | Buffalo, N. Y. | Ritz Theatre | Tulsa, Okla. |
| Capitol Theatre | Waterloo, Minn. | Lafayette Theatre | Lexington, Ky. | Riviera Theatre | Chicago, Ill. |
| Capitol Theatre | Wheeling, W. Va. | Latonia Theatre | Oil City, Pa. | Riviera Theatre | Omaha, Nebr. |
| Carman Theatre | Philadelphia, Pa. | Lincoln Theatre | Belleville, Ill. | Roosevelt Theatre | Gary, Ind. |
| Carolina Theatre & Apts. | Winston Salem, N. C. | Lindell Theatre | St. Louis, Mo. | Roxy Theatre | Philadelphia, Pa. |
| Cass Theatre | Detroit, Mich. | Little Theatre | Dallas, Texas | Royal Theatre | Joliet, Ill. |
| Century Theatre | Audubon, N. J. | Loews Theatre | Akron, Ohio | Saenger Theatre | Mobile, Ala. |
| Century Theatre | Cedar Rapids, Iowa | Loews Theatre (Pitkin) | Brooklyn, N. Y. | Saenger Theatre | New Orleans, La. |
| Central Park Theatre | Chicago, Ill. | Loews Granada Theatre | Cleveland, Ohio | Saenger Theatre | Pensacola, Fla. |
| Chicago Theatre | Chicago, Ill. | Loews Park Theatre | Columbus, Ohio | Saenger Theatre | Pine Bluff, Ark. |
| Circle Theatre | Philadelphia, Pa. | Loews Theatre | Columbus, Ohio | Saenger Theatre | Shreveport, La. |
| Cohan Grand Opera House | Chicago, Ill. | Loews Valencia Theatre | Jamaica, L. I., N. Y. | Saenger Theatre | Texarkana, Texas |
| Colonial Theatre | Allentown, Pa. | Loews Theatre | Louisville, Ky. | Santa Catalina Theatre & Dance Hall | Wilmington, Calif. |
| Colony Theatre | Chicago, Ill. | Loews 17th St. Theatre | New York City, N. Y. | Sawyer Theatre | Chicago, Ill. |
| Columbia Theatre | Baton Rouge, La. | Loews Theatre | Pittsburgh, Pa. | Saxe Theatre | Milwaukee, Wis. |
| Columbia Theatre | Paducah, Ky. | Lyric Theatre | Indianapolis, Ind. | Schaeffer Theatre | St. Cloud, Minn. |
| Continental Theatre | Muskegon, Mich. | Majestic Theatre | Bloomington, Ill. | Seattle Publix Theatre | Seattle, Wash. |
| Coronado Theatre | Rockford, Ill. | Majestic Theatre | Dallas, Texas | Senate Theatre | Chicago, Ill. |
| Curran Theatre | San Francisco, Calif. | Majestic Theatre | Houston, Texas | Shea Theatre | New Rochelle, N. Y. |
| Delft Theatre | Marquette, Mich. | Majestic Theatre | Racine, Wis. | Sheridan Theatre | Chicago, Ill. |
| Denver Theatre | Denver, Colo. | Manor Theatre | Norwood, Pa. | Sheridan Square Theatre | New York City, N. Y. |
| Diversey Theatre | Chicago, Ill. | Marbro Theatre | Chicago, Ill. | St. Louis Theatre | St. Louis, Mo. |
| Dormont-Harris Theatre | S. Hills, Pittsburgh, Pa. | Marks Bros. Theatre | Chicago, Ill. | Stanley Crandall Theatre | Baltimore, Md. |
| Dunkin Theatre | Cushing, Okla. | Mastbaum Theatre | Philadelphia, Pa. | Stanley-Fabian Theatre | Jersey City, N. J. |
| East Side Theatre | Madison, Wis. | McCook Theatre | McCook, Nebr. | Stanley Theatre | Bridgeton, N. J. |
| Egyptian Theatre | Sioux Falls, S. D. | McVicker's Theatre | Chicago, Ill. | State-Lake Theatre | Chicago, Ill. |
| El Capitan Theatre | Hollywood, Calif. | Melba Theatre | Dallas, Texas | State Theatre | Kalamazoo, Mich. |
| Embassy Theatre | East Liberty, Pa. | Metropolitan Theatre | Houston, Texas | State Theatre | Minneapolis, Minn. |
| Emboyd Theatre | Ft. Wayne, Ind. | Michigan Theatre | Ann Arbor, Mich. | State Theatre | Pontiac, Mich. |
| Empire Theatre | Birmingham, Ala. | Michigan Theatre | Detroit, Mich. | State Theatre | Sioux Falls, S. D. |
| Erber Theatre | East St. Louis, Ill. | Michigan Theatre | Flint, Mich. | Strand Theatre | Greensburg, Pa. |
| Erlanger Theatre | Atlanta, Ga. | Miller's Theatre | Jefferson City, Mo. | Strand Theatre | Lansing, Mich. |
| Family Theatre | Shamokin, Pa. | Minneapolis Theatre | Minneapolis, Minn. | Stratford Theatre | Chicago, Ill. |
| Famous Players Theatre | Denver, Colo. | Missouri Theatre | St. Louis, Mo. | Texas Theatre | San Antonio, Texas |
| Fargo Theatre | Fargo, N. D. | Municipal Theatre | St. Louis, Mo. | Theatre & Apt. Bldg. | Detroit, Mich. |
| First Ave. Theatre | Cedar Rapids, Iowa | Oakwyn Theatre | Berwyn, Ill. | Theatre | Fond Du Lac, Wis. |
| Fisher Theatre | Detroit, Mich. | Olympia Theatre | Miami, Fla. | Theatre & Office Bldg. | Tampa, Fla. |
| Floral Park Theatre | Floral Park, L. I., N. Y. | Olympia Theatre | New Haven, Conn. | Tivoli Theatre | Chattanooga, Tenn. |
| Fort Armstrong Theatre | Rock Island, Ill. | Orpheum Theatre | Los Angeles, Calif. | Tivoli Theatre | Chicago, Ill. |
| Forum Theatre | Philadelphia, Pa. | Orpheum Theatre | Memphis, Tenn. | Tivoli Theatre | Gary, Ind. |
| Fox Theatre | Appleton, Wis. | Orpheum Theatre | Milwaukee, Wis. | Tower Theatre | Chicago, Ill. |
| Fox Theatre & Hotel | Ft. Wayne, Ind. | Orpheum Theatre | Oklahoma City, Okla. | Union Square Theatre | Pittsfield, Mass. |
| Gayety Theatre | Springfield, Ill. | Orpheum Theatre | Omaha, Nebr. | United Artists' Theatre | Detroit, Mich. |
| Goodman Theatre | Chicago, Ill. | Orpheum Theatre | Phoenix, Ariz. | United Artists' Theatre | Chicago, Ill. |
| Granada Theatre | San Francisco, Calif. | Orpheum Theatre | Rockford, Ill. | Universal Theatre | Los Angeles, Calif. |
| Grand Riveria Theatre | Detroit, Mich. | Orpheum Theatre | Seattle, Wash. | Uptown Theatre | Brooklyn, N. Y. |
| Grand Theatre | Keokuk, Iowa | Orpheum Theatre | Sioux City, Iowa | Uptown Theatre | Chicago, Ill. |
| Grauman's Chinese Theatre | Hollywood, Calif. | Orpheum Theatre | Springfield, Ill. | Uptown Theatre | Minneapolis, Minn. |
| Gratiot's Theatre | San Francisco, Calif. | Orpheum Theatre | Tulsa, Okla. | Uptown Theatre | Philadelphia, Pa. |
| Grove Theatre | Willow Grove, Pa. | Owosso Theatre | Vancouver, B. C., Canada | Uptown Theatre | Wichita, Kansas |
| Hanna Theatre | Cleveland, Ohio | Oxford Theatre | Philadelphia, Pa. | Uptown Theatre | Kansas City, Mo. |
| Harris Bros. Theatre | McKeesport, Pa. | Palace Theatre | Canton, Ohio | Valencia Theatre | Jamaica, L. I., N. Y. |
| Hennepin Theatre | Minneapolis, Minn. | Palace Theatre | Chicago, Ill. | Victory Theatre | Evansville, Ind. |
| Howard Theatre | Chicago, Ill. | Palace Theatre | Dallas, Texas | Walt Whitman Theatre | Camden, N. J. |
| Ideal Theatre | Springfield, Vt. | Palace Theatre | Gary, Ind. | Warner Bros. Theatre | Atlantic City, N. J. |

Major System

New Multiple Remote Control

A NEW development of the Major System has been perfected which is principally adapted for theaters in which sound pictures are the predominant attraction. This new lighting control has been very successful in a score of houses where the control included only the requirements of curtain, first entrances, and auditorium lighting, and motor control of curtains and screen. This exceptionally flexible control system is a motor-driven dimmer switchboard which gives not only stage control, but has multiple remote control stations which may be placed anywhere in the

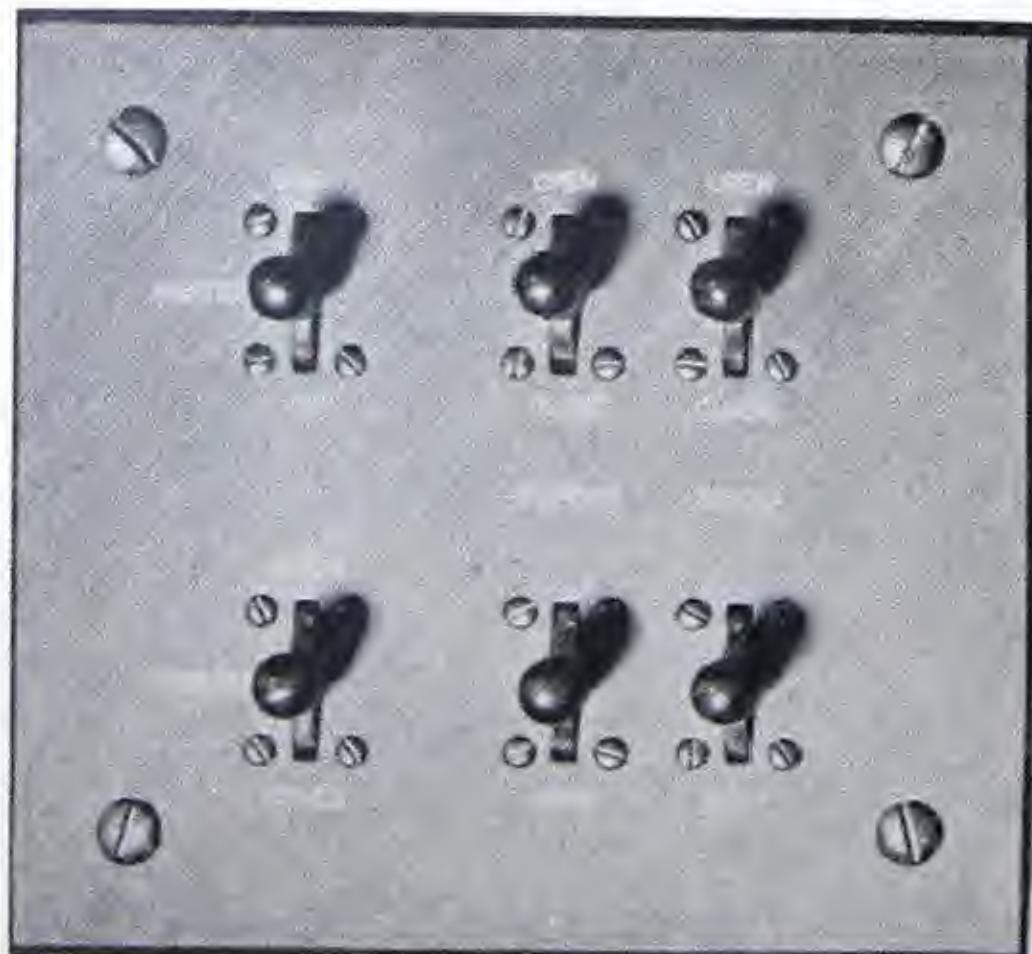
These master control stations operate all movements of the entire switchboard and dimmer apparatus which may be located in the basement or at any other point near the center of load. No floor space is required on the stage or booth for any portion of the equipment.

Pre-Selective Control Station

Illustration to the right is of the Pre-selective Control Station, one of which is installed in the booth and, if desired, also on the stage. The cumulative control on this board is extended to the small master board shown below.

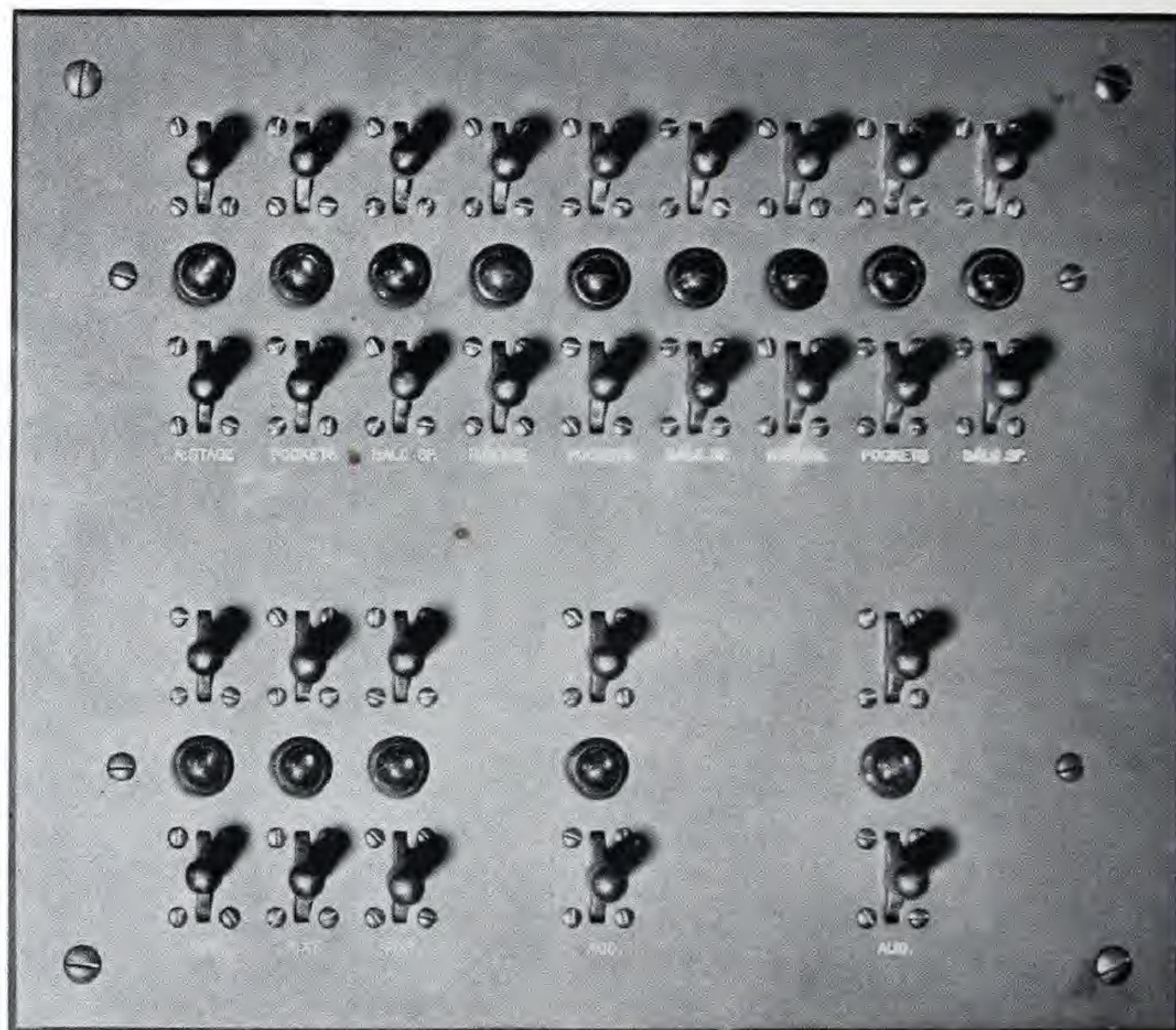
Master Control Station

The illustration below is the master control station and one of these is placed next to each moving picture machine, on the stage, and any other desired location. One switch controls the pre-sets on the pre-selective control station. It also contains switches for curtain, screen, orchestra signal, and any other needed control.



Switchboard and Dimmers

Illustration to the right shows the complete remote control switches and dimmers, including their motor equipment. It is this unit that can be placed in the basement or at any convenient location, preferably at the center of the load.



Major System

STAGE REMOTE CONTROL

SINCE its inception the Major System has always represented the foremost development in the remote control of theater lighting. Various combinations of units provide switchboards for every type of service.

The great theaters of modern times put a tremendous demand upon the stage switchboard and the multiplicity of control switches would seriously slow down the performance if it were not for Major System that simplified as well as standardized the work.

Today with so many successful installations, there is every certainty of practical light control in the theater for which it is chosen. For complete flexibility of control, compactness on the stage, one man control, regardless of size, and other features, it is famed throughout the country. Properly engineered and applied, it serves most practically in any theater requiring stage lighting in addition to the auditorium.



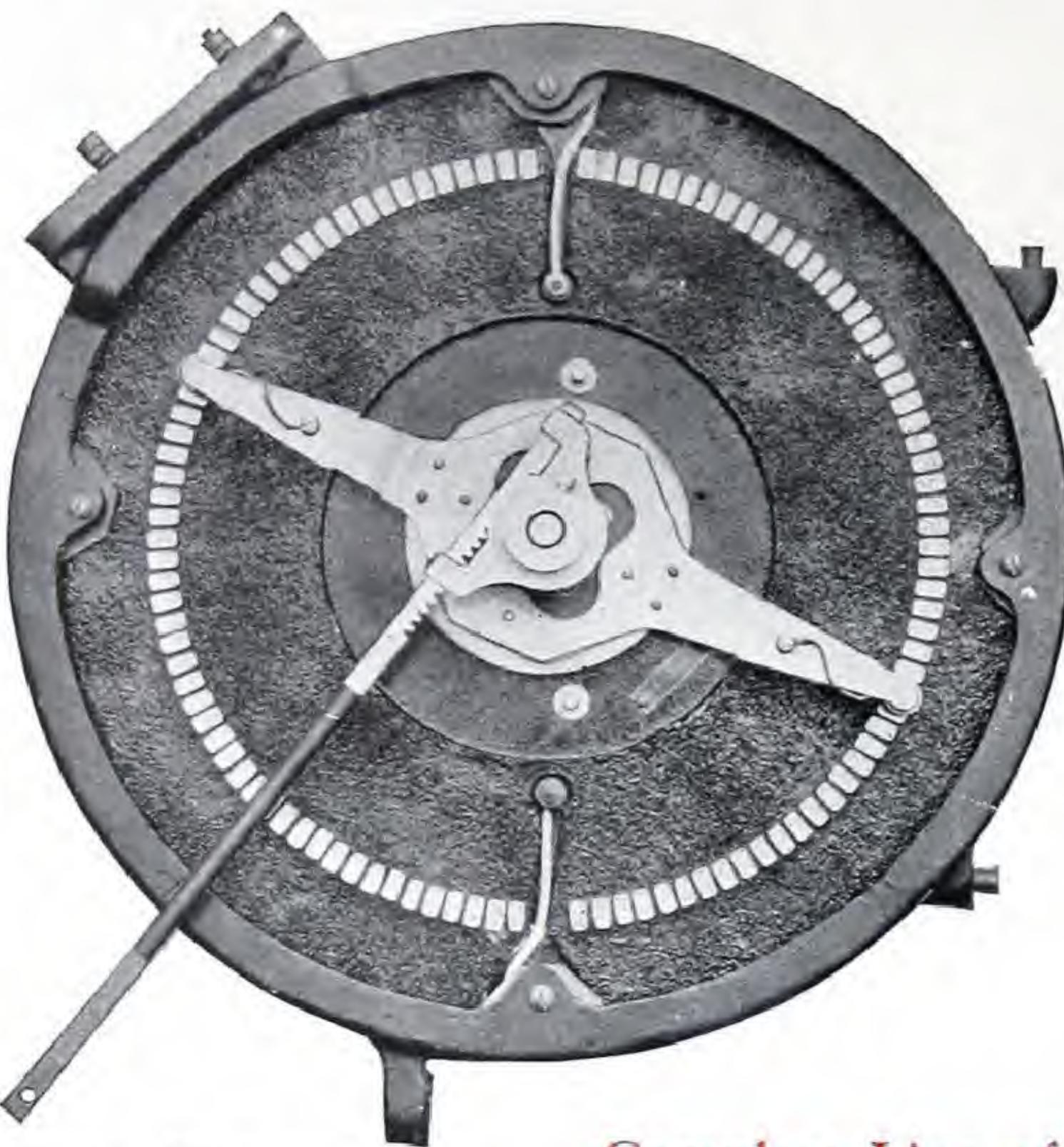
Stage Pilot Switchboard

New Mobile Lighting

A great advance has been made in mobile lighting for special use, and we believe great developments will be made in this new method of "painting with light." Each installation requires engineering co-operation which we are

glad to offer. If you have a situation which you feel may be adaptable to mobile light effects, we will be glad to discuss the matter with you to determine whether this new and very beautiful addition to lighting achievements can be applied.

Hand and Motor Driven Dimmers



Cutler-Hammer Dimmer Plate used in the Major System.



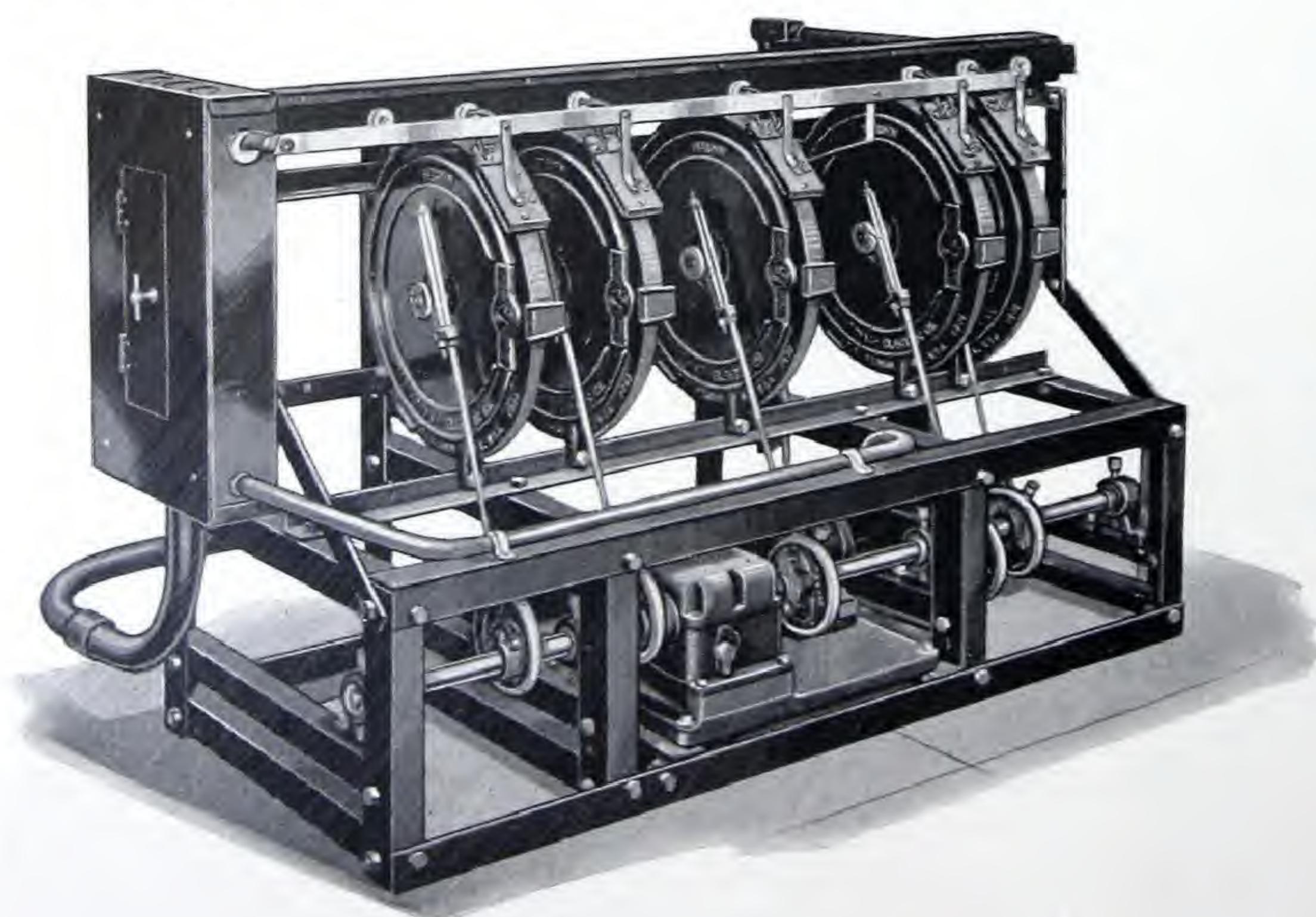
Ward-Leonard Dimmer Plate used in Major System.

Complete Line of Dimmers

Sliding Type Dimmers for Portable Equipment.—For the small dimming units to be mounted on the pipe standard of spotlights and other portable equipment we have a sliding type that comes in standard sizes to fit all lamp loads. They are also continuous duty types and will carry their rated capacities without overheating.

The Major line of Dimmers include a type and kind for every condition of service and every size of load. Most needs can be met with a standard type, yet the uses of Dimmers are so varied that a complete listing is impractical. If you will tell us what you want dimmed we will send complete estimates and details without cost.

Continuous Duty, Interlocking Dimmer for Theatres.—We have used thousands of Dimmer Plates similar to the one illustrated in connection with the Major theatre switchboard. All Major Dimmers are of continuous duty type and the plate type are all interlocking. Single Dimmer Plate is usually 3600 watt. We have a 1000/2000 Dimmer Plate that takes a 1000W to 2000W load down to "black out."



To make a really silent Motor Driven Dimmer Bank is an achievement only Major so far has accomplished. It is especially adapted to Remote Control Systems and is a worthwhile contribution to good theater operation. It is equipped with ball bearing cam eccentrics and has all drive gears enclosed in a special grease packed housing. Made in all sizes for all load capacities.

Panels and Switchboards

Amundsen School
 Avalon Theater
 Blum's Vogue
 Board of Trade Building
 Capitol Theater
 Foreman-State Nat'l Bank
 Granada Theater
 Grigsby-Grunow Factory
 McVicker's Theater
 Marlboro Theater
 Merchandise Mart
 Norshore Theater
 Northern Trust Company
 Palace Theater
 Palmolive Building—Lindbergh Beacon
 Paradise Theater



Senn High School
 State and Lake Theater
 Stratford Theater
 Tivoli Theater
 University of Chicago Buildings—
 Echart Hall
 Oriental Institute
 Bens Residence Halls
 Lying-In Hospital
 Bodds Roberts Hospital
 Orthopedic Hospital
 University of Chicago Power House
 United Artists' Theater
 Uptown Theater
 Wieboldt's Dept. Store at 63rd Street
 Willoughby Tower

IN ADDITION to the products listed earlier in this catalog we also maintain complete facilities for switchboards of any size and type, and a complete line of standardized sectional safety type panelboards. The illustration above shows a number of the larger Chicago installations and the list on each side gives a few more

of the many Major equipped buildings. The engineering facilities afforded by the Major Equipment Company for co-operation with architects and engineers, is particularly valuable in this class of work, and we are happy to extend this service upon request.

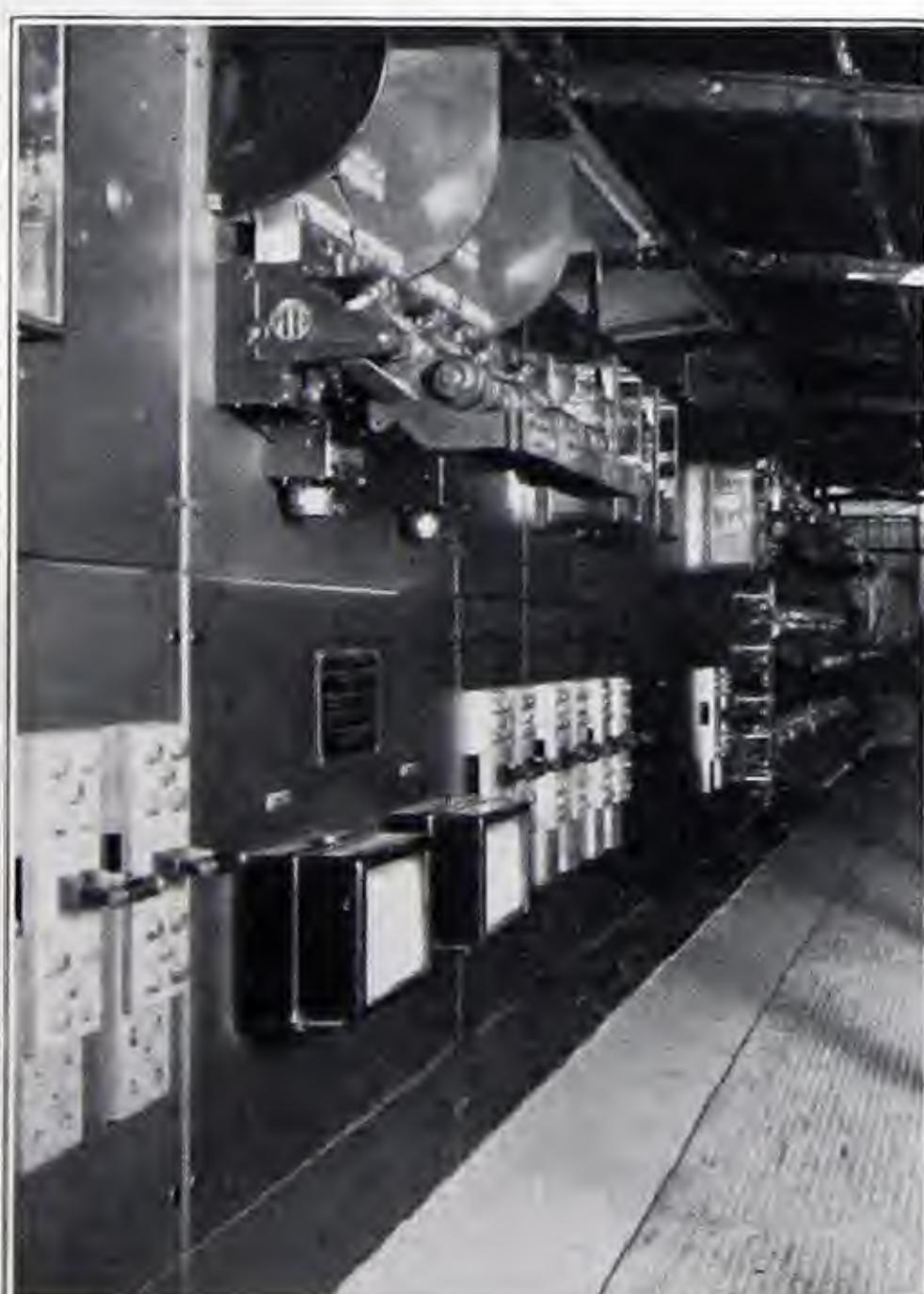


Illustration at the left is of the main switchboard in the First National Bank Building in Chicago. The size of this installation may be gauged by the fact that there are $3\frac{1}{2}$ tons of copper in the buss bar assembly.

This illustration of one type of FA panelboards, for which we are representatives in Chicago and vicinity, is but one of the complete line which also includes meter control panelboards.



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